

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT							
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER 12-17-45 BTR							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED							
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME							
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164							
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H626402			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Uintah and Ouray			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		1909 FSL 844 FWL		NWSW		17		4.0 S		5.0 W		U	
Top of Uppermost Producing Zone		1909 FSL 844 FWL		NWSW		17		4.0 S		5.0 W		U	
At Total Depth		1909 FSL 844 FWL		NWSW		17		4.0 S		5.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 844			23. NUMBER OF ACRES IN DRILLING UNIT 640							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 3156			26. PROPOSED DEPTH MD: 8692 TVD: 8692							
27. ELEVATION - GROUND LEVEL 6460			28. BOND NUMBER LPM8874725			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180							
<b>Hole, Casing, and Cement Information</b>													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight		
COND	26	16	0 - 80	65.0	Unknown	8.8	Unknown		0	0.0	0.0		
SURF	14.75	10.75	0 - 2200	45.5	J-55 ST&C	8.8	Halliburton Light , Type Unknown		540	3.16	11.0		
							Halliburton Premium , Type Unknown		360	1.36	14.8		
PROD	9.875	5.5	0 - 8692	17.0	P-110 LT&C	9.7	Unknown		910	2.31	11.0		
							Unknown		1250	1.42	13.5		
<b>ATTACHMENTS</b>													
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Venessa Langmacher				TITLE Senior Permit Analyst				PHONE 303 312-8172					
SIGNATURE				DATE 11/30/2011				EMAIL vlangmacher@billbarrettcorp.com					
API NUMBER ASSIGNED 43013510970000				APPROVAL  Permit Manager									

**DRILLING PLAN**

BILL BARRETT CORPORATION

**12-17-45 BTR Well Pad**

NW SW, 1909' FSL and 844' FWL, Section 17, T4S-R5W, USB&M  
Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD</u></b>
Green River	2,312'
Mahogany	2,922'
Lower Green River*	4,272'
Douglas Creek	5,142'
Black Shale	5,992'
Castle Peak	6,222'
Uteland Butte	6,522'
Wasatch*	6,747'
TD	8,692'

\*PROSPECTIVE PAY

Members of the Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 5,900'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 2,200'	No pressure control required
2,200' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH (FROM) (TO)</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
26"	Surface	80'	16"	65#			
14 3/4"	Surface	2,200'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8" & 8-3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New
<b>NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&amp;C at a depth of 6,700', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 2200' liner (200' liner lap).</b>							

Bill Barrett Corporation  
Drilling Program  
#12-17-45 BTR  
Duchesne County, Utah

## 5. Cementing Program

<u>Casing</u>	<u>Cement</u>
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface Casing	<p><i>Lead</i> with approximately 540 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft<sup>3</sup>/sx) circulated to surface with 75% excess.</p> <p><i>Tail</i> with approximately 360 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft<sup>3</sup>/sx). Calculated hole volume with 75% excess.</p>
9-7/8 hole for 5 1/2" Production Casing May reduce hole size to 8-3/4" at 6,700' if minimal hole problems.	<p><i>Lead</i> with approximately 910 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx).</p> <p><i>Tail</i> with approximately 1250 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned TOC 1,700'.</p>
<p><b>NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned TOC surface.</b></p> <p><b>The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.</b></p>	

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2,200'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,200' – TD	8.6 – 9.7	42 – 52	20 cc or less	DAP Polymer Fluid System
<p><b>Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.</b></p>				

## 7. Testing, Logging and Core Programs

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.
<p><b>NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.</b></p>	

Bill Barrett Corporation  
Drilling Program  
#12-17-45 BTR  
Duchesne County, Utah

**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4384 psi\* and maximum anticipated surface pressure equals approximately 2472 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction:	June 2012
Spud:	June 2012
Duration:	15 days drilling time
	45 days completion time



## **PRESSURE CONTROL EQUIPMENT – Schematic Attached**

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

### **C. Testing Procedure:**

#### Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

#### Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: 2/18/2011

Well Name: 12-17-45 BTR

### Surface Hole Data:

Total Depth:	2,200'
Top of Cement:	0'
OD of Hole:	14.750"
OD of Casing:	10.750"

### Calculated Data:

Lead Volume:	1655.0	ft <sup>3</sup>
Lead Fill:	1,700'	
Tail Volume:	486.8	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	540
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,700'	

# SK's Tail:	360
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### Production Hole Data:

Total Depth:	8,692'
Top of Cement:	1,700'
Top of Tail:	5,492'
OD of Hole:	9.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	2086.8	ft <sup>3</sup>
Lead Fill:	3,792'	
Tail Volume:	1761.2	ft <sup>3</sup>
Tail Fill:	3,200'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	910
# SK's Tail:	1250

<b>12-17-45 BTR Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1700' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,700'
	Volume: 294.75 bbl
	<b>Proposed Sacks: 540 sks</b>
<b>Tail Cement - (TD - 1700')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,700'
	Calculated Fill: 500'
	Volume: 86.69 bbl
	<b>Proposed Sacks: 360 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (5492' - 1700')</b>	
Tuned Light <sup>TM</sup> System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,700'
	Calculated Fill: 3,792'
	Volume: 371.64 bbl
	<b>Proposed Sacks: 910 sks</b>
<b>Tail Cement - (8692' - 5492')</b>	
Econocem <sup>TM</sup> System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 5,492'
	Calculated Fill: 3,200'
	Volume: 313.65 bbl
	<b>Proposed Sacks: 1250 sks</b>

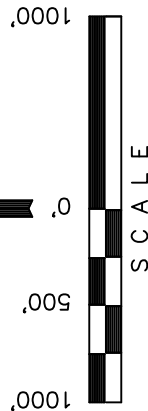
Well location, #12-17-45 BTR, located as shown in the NW 1/4 SW 1/4 of Section 17, T4S, R5W, U.S.B.&M., Duchesne County, Utah.

## BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

## BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



# CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE REPLY WAS PREPARED FROM THE FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY CLOSEST SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078

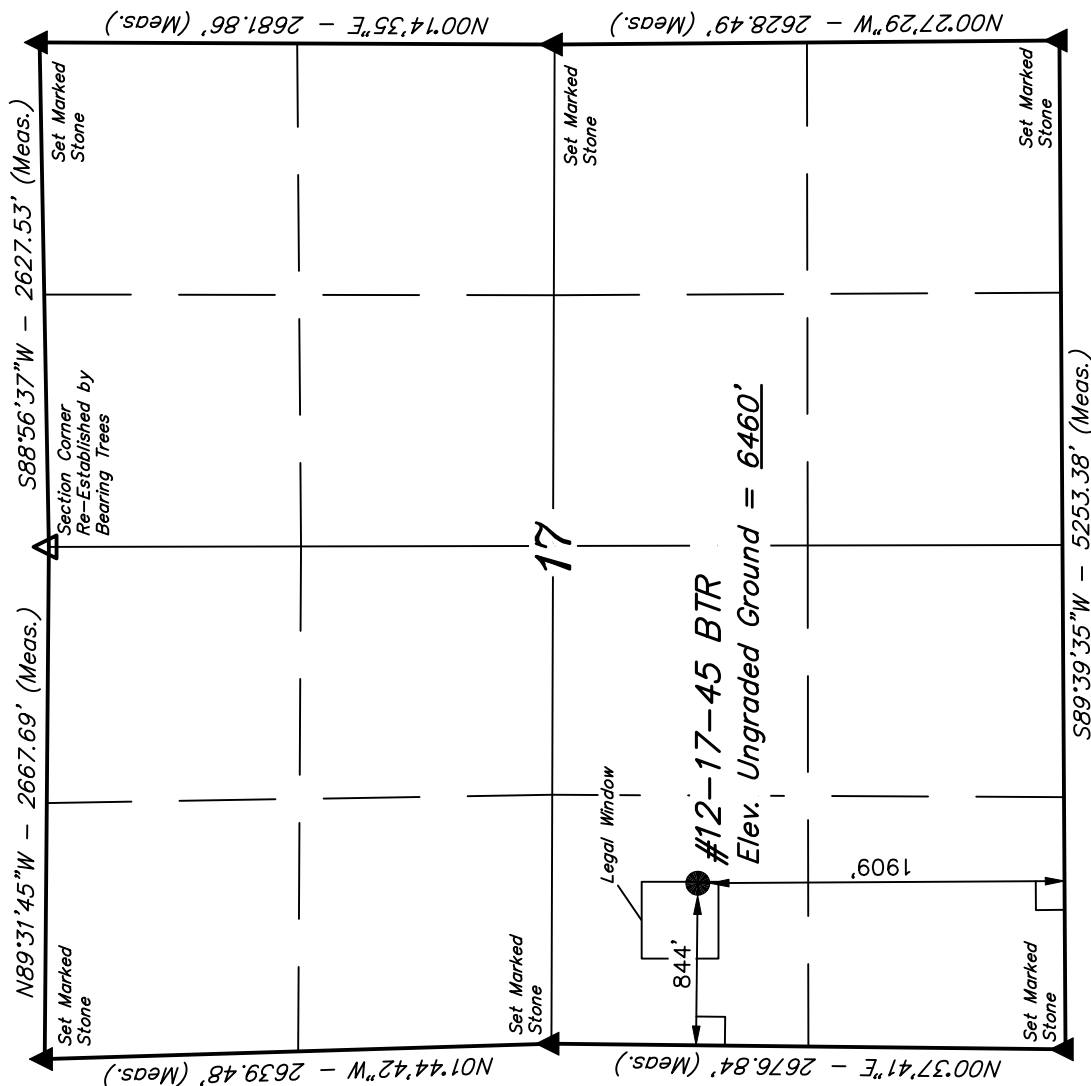
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	01-17-11	02-01-11

PARTY	REFERENCES
T.A. C.W. C.C.	G.L.O. PLAT

WEATHER  
COLD

BILL BARRETT CORPORATION



(NAD 83)  
LATITUDE = 40°07'51.33" (40.130925)  
LONGITUDE = 110°28'49.11" (110.480308)

(NAD 27)  
LATITUDE = 40°07'51.48" (40.130967)  
LONGITUDE = 110°28'46.55" (110.479597)

LEGEND:

$\mid = 90^\circ$  SYMBOL

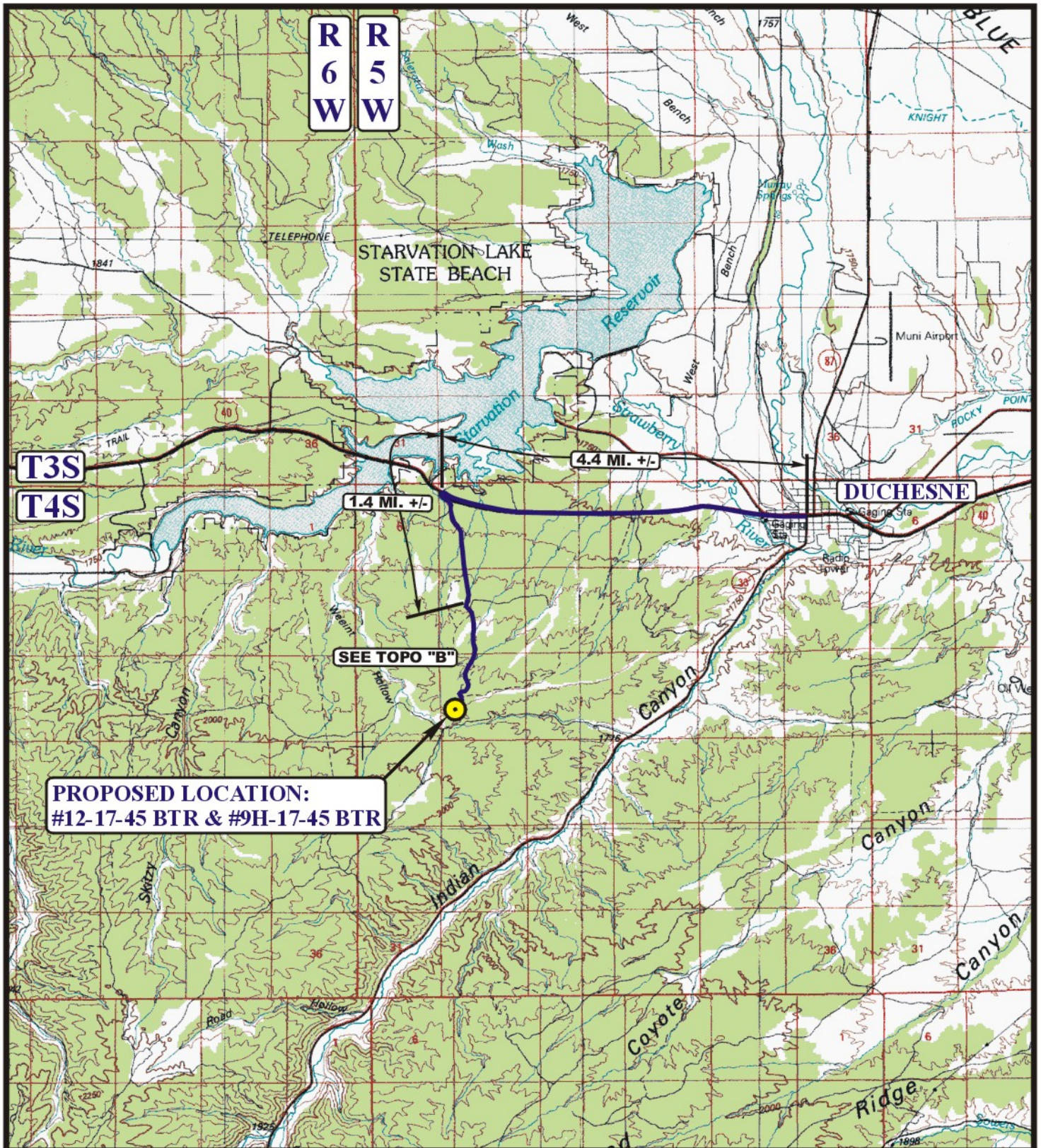
● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

**Δ** = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

RECEIVED: November 30, 2011





**LEGEND:**

PROPOSED LOCATION

**BILL BARRETT CORPORATION**

**#12-17-45 BTR & #9H-17-45 BTR  
SECTION 17, T4S, R5W, U.S.B.&M.  
NW 1/4 SW 1/4**



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**ACCESS ROAD  
MAP**

**01 11 11**  
MONTH DAY YEAR

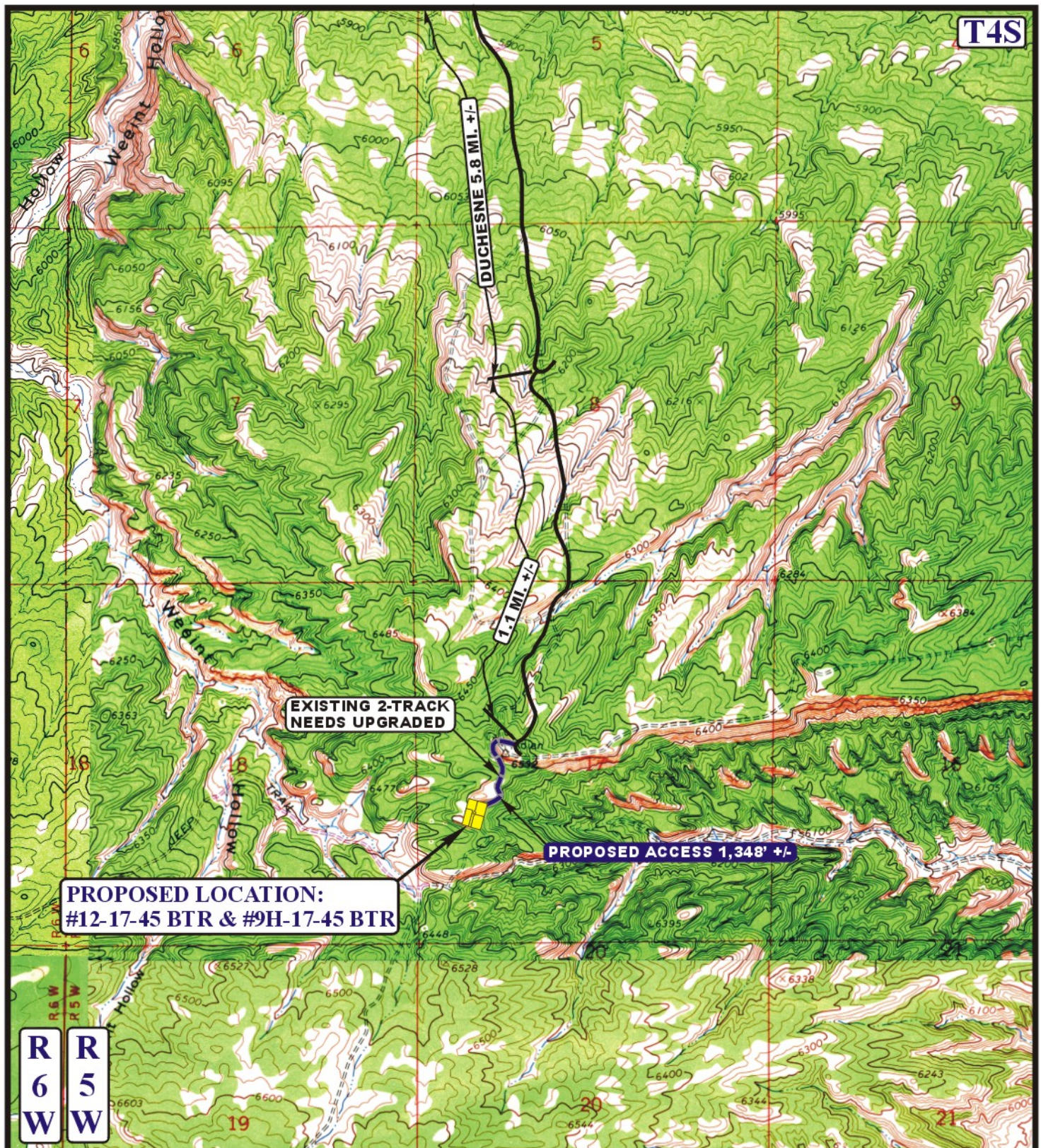
SCALE: 1:100,000

DRAWN BY: J.J.

REV: 07-27-11 C.I.







**LEGEND:**

	EXISTING ROAD
	PROPOSED ACCESS ROAD
	EXISTING 2-TRACK NEEDS UPGRADED



**BILL BARRETT CORPORATION**

**#12-17-45 BTR & #9H-17-45 BTR  
SECTION 17, T4S, R5W, U.S.B.&M.  
NW 1/4 SW 1/4**



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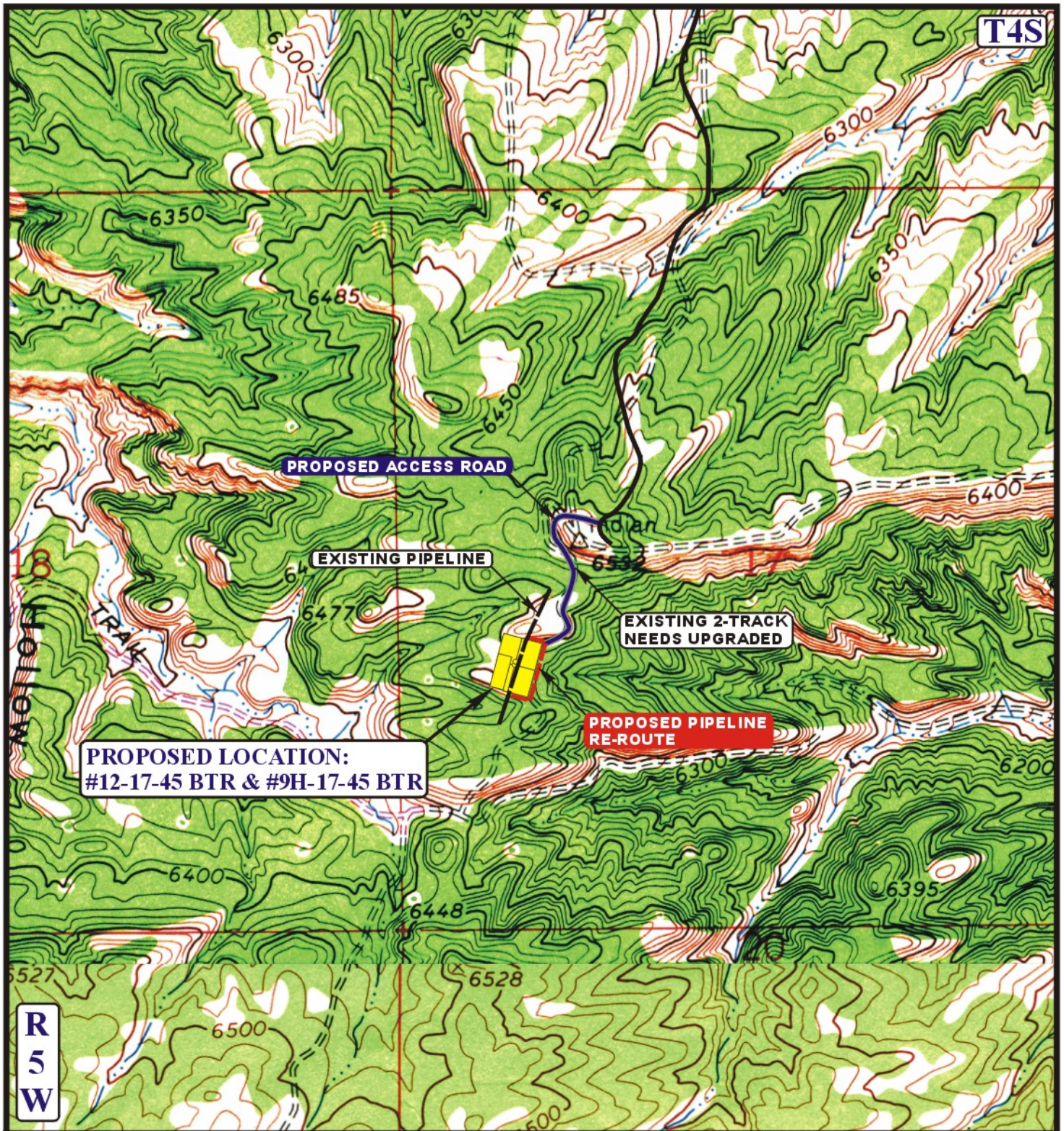
**ACCESS ROAD  
MAP**

**01 11 11**  
MONTH DAY YEAR

**B  
TOPO**

SCALE: 1" = 2000' DRAWN BY: J.J. REV: 07-27-11 C.I.





**APPROXIMATE TOTAL PIPELINE RE-ROUTE DISTANCE = 615' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE RE-ROUTE

**BILL BARRETT CORPORATION**

**#12-17-45 BTR & #9H-17-45 BTR**  
**SECTION 17, T4S, R5W, U.S.B.&M.**  
**NW 1/4 SW 1/4**



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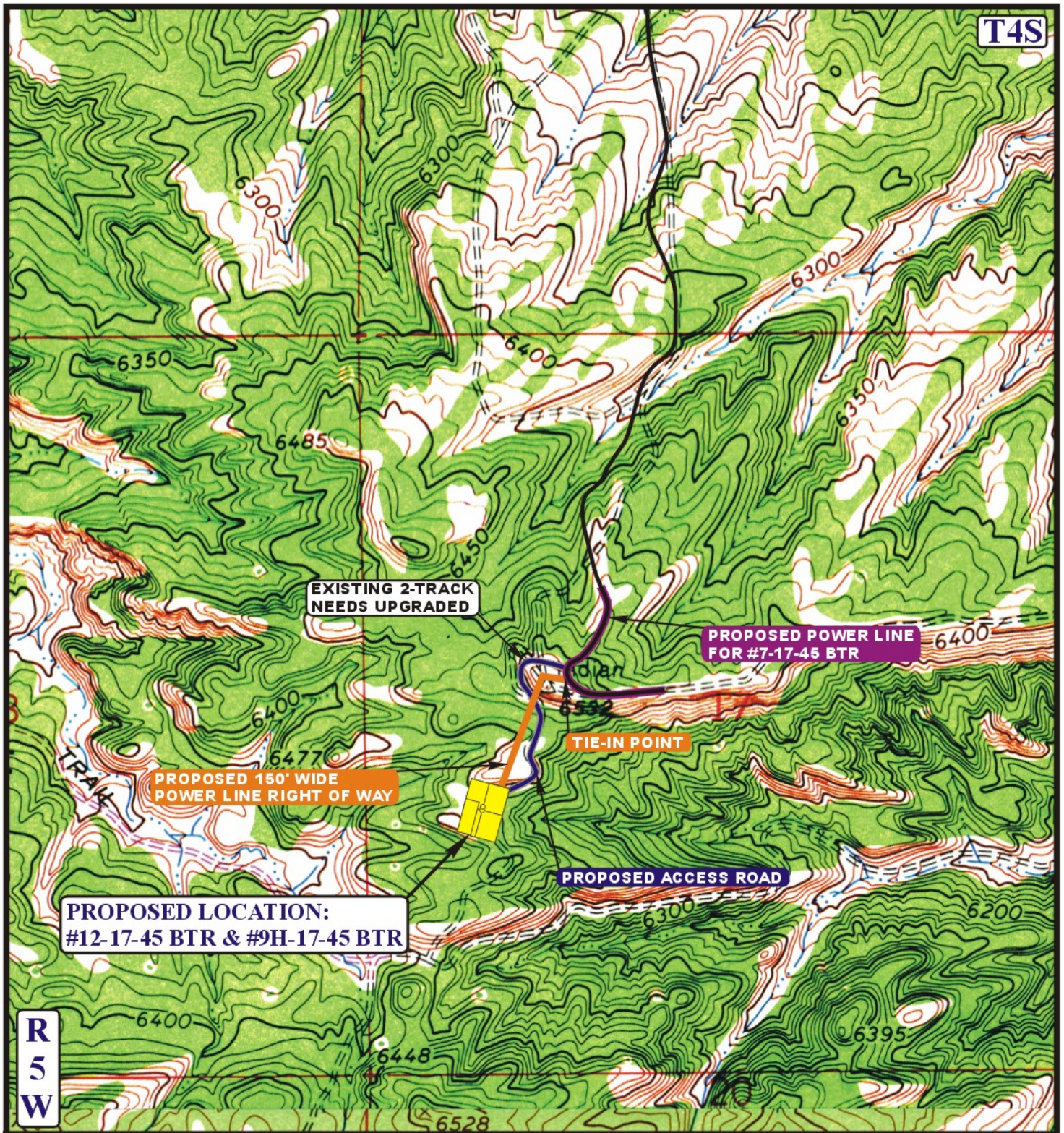
**TOPOGRAPHIC**  
**MAP**

**01 11 11**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.J. REV: 07-27-11 C.I.







APPROXIMATE TOTAL POWER LINE DISTANCE = 926' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- PROPOSED POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)



**BILL BARRETT CORPORATION**

#12-17-45 BTR & #9H-17-45 BTR  
SECTION 17, T4S, R5W, U.S.B.&M.  
NW 1/4 SW 1/4



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**TOPOGRAPHIC  
MAP**

**01 11 11**  
MONTH DAY YEAR

SCALE: 1" = 1000'

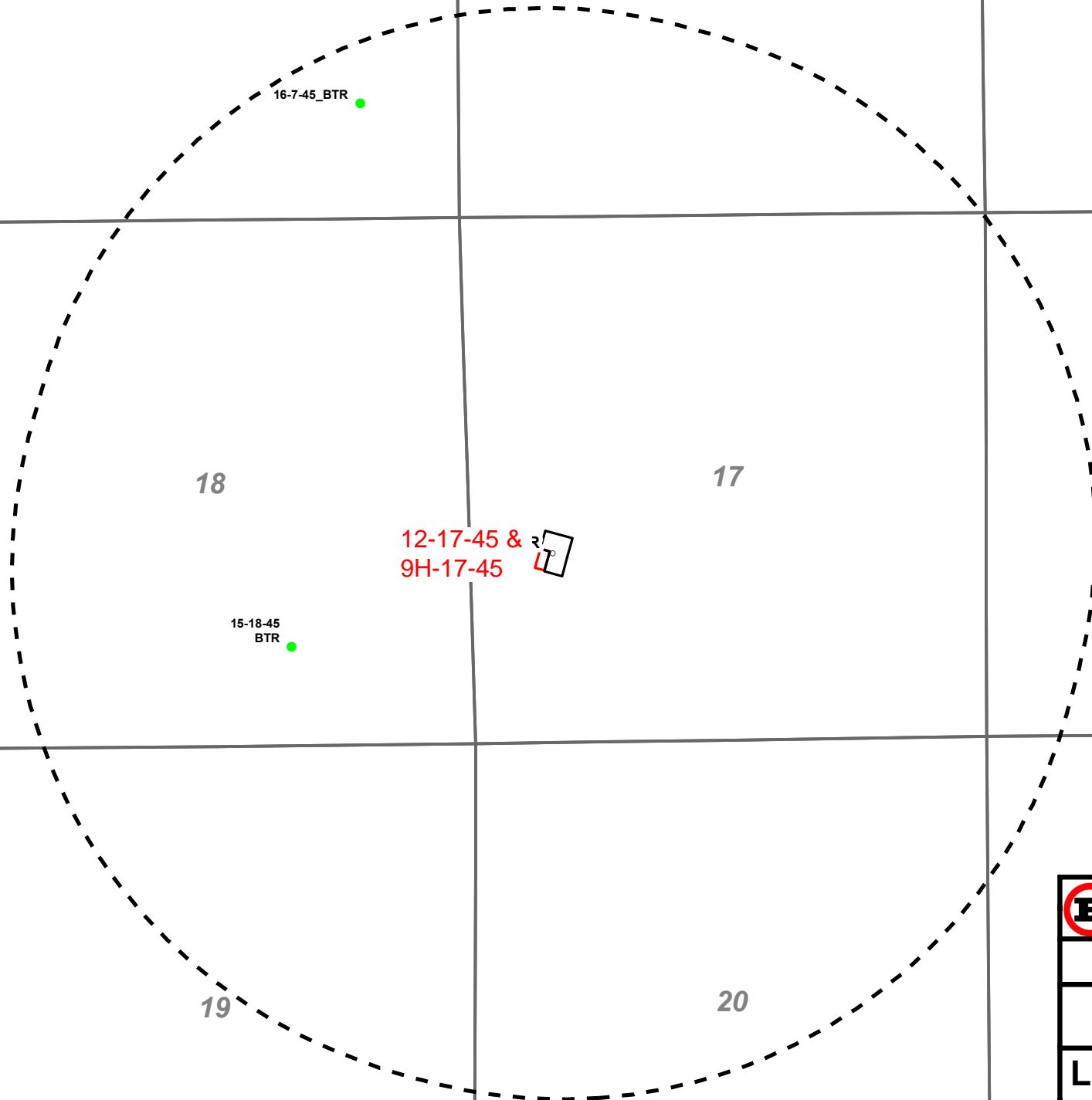
DRAWN BY: J.J.



REV: 07-27-11 C.I.

**D  
TOPO**



4S/5W



 <b>Bill Barrett Corporation</b>
<b>One Mile Radius Map</b>
12-17-45 BTR Pad NWSW, Section 17, T4S, R5W Duchesne County, Utah
<b>Legend</b>
 Oil - 2 Total

## **SURFACE USE PLAN**

### **BILL BARRETT CORPORATION** **12-17-45 BTR & 9H-17-45 BTR Pad** **Duchesne County, Utah**

<b><u>12-17-45 BTR</u></b> NWSW, 1909' FSL & 844' FWL, Sec. 17, T4S-R5W	<b><u>9H-17-45 BTR</u></b> NWSW, 1924' FSL & 848' FWL, Sec. 17, T4S-R5W (surface hole) NESE, 1980' FSL & 700' FEL, Sec. 17, T4S-R5W (bottom hole)
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The onsite inspection for this pad occurred on October 14, 2011. This is a new pad with a total of two proposed wells. Plat changes requested at the onsite are reflected within this APD and summarized below:

- a) Maintain topsoil/spoils out of the drainage to the extent possible;

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

#### 1. Existing Roads:

- a. The proposed well pad is located approximately 7.1 miles southwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well pad are included (see Topographic maps A and B).
- b. The existing State Highway 40 would be utilized from Duchesne for 4.4 miles to the existing BBC maintained 7-17D-45 BTR access road that would be utilized for 2.5 miles and provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permits are required.

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Duchesne County, UT

- f. All existing roads would be maintained and kept in good repair during all phases of operation.

2. Planned Access Road:

- a. Approximately 1,348 feet of new access road trending south is planned from the existing 7-17D-45 BTR access road (see Topographic Map B). The proposed access road crosses entirely Ute Tribe surface.
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the pad.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed.

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- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
- m. The operator would be responsible for all maintenance needs of the new access road.

3. Location of Existing Wells (see One-Mile Radius Map):

- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
  - i. water wells none
  - ii. injection wells none
  - iii. disposal wells none
  - iv. drilling wells none
  - v. temp shut-in wells none
  - vi. producing wells two
  - vii. abandoned wells none

4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.

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- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 615 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending north to the existing 7-17D-45 BTR pipeline corridor. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC wells. The pipeline crosses entirely Ute Tribe surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well pad and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective Beetle Green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

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 Duchesne County, UT

- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- l. The pad would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations for each well.

6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.



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 Surface Use Plan  
 12-17-45 BTR & 9H-17-45 BTR Pad  
 Duchesne County, UT

- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the wells other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

<b>Disposal Facilities</b>
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.

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12-17-45 BTR & 9H-17-45 BTR Pad  
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- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110 feet from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

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- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor 926 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.

9. Well Pad Layout:

- a. Each well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 384 feet x 285 feet with an inboard reserve pit size of 226 feet x 100 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.

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- i. Diversion ditches would be constructed, if necessary, around the well pad to prevent surface waters from entering the well pad area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency.
- b. Pad reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well pad by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.
- f. Topsoil salvaged from the drill pad and stored for more than one year would be placed at the location indicated on the well pad layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

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11. Surface and Mineral Ownership:

- a. Surface & Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies as MOAC Report No. 11-002 dated May 2, 2011.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
- No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.
- d. Disturbance estimates:

**Approximate Acreage Disturbances**

Well Pad		3.461	acres
Access	1348 feet	0.928	acres
Pipeline	615 feet	(within)	
Powerline	926 feet	3.188	acres

**Total            7.577    acres**


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Surface Use Plan  
12-17-45 BTR & 9H-17-45 BTR Pad  
Duchesne County, UT

OPERATOR CERTIFICATION

Certification:

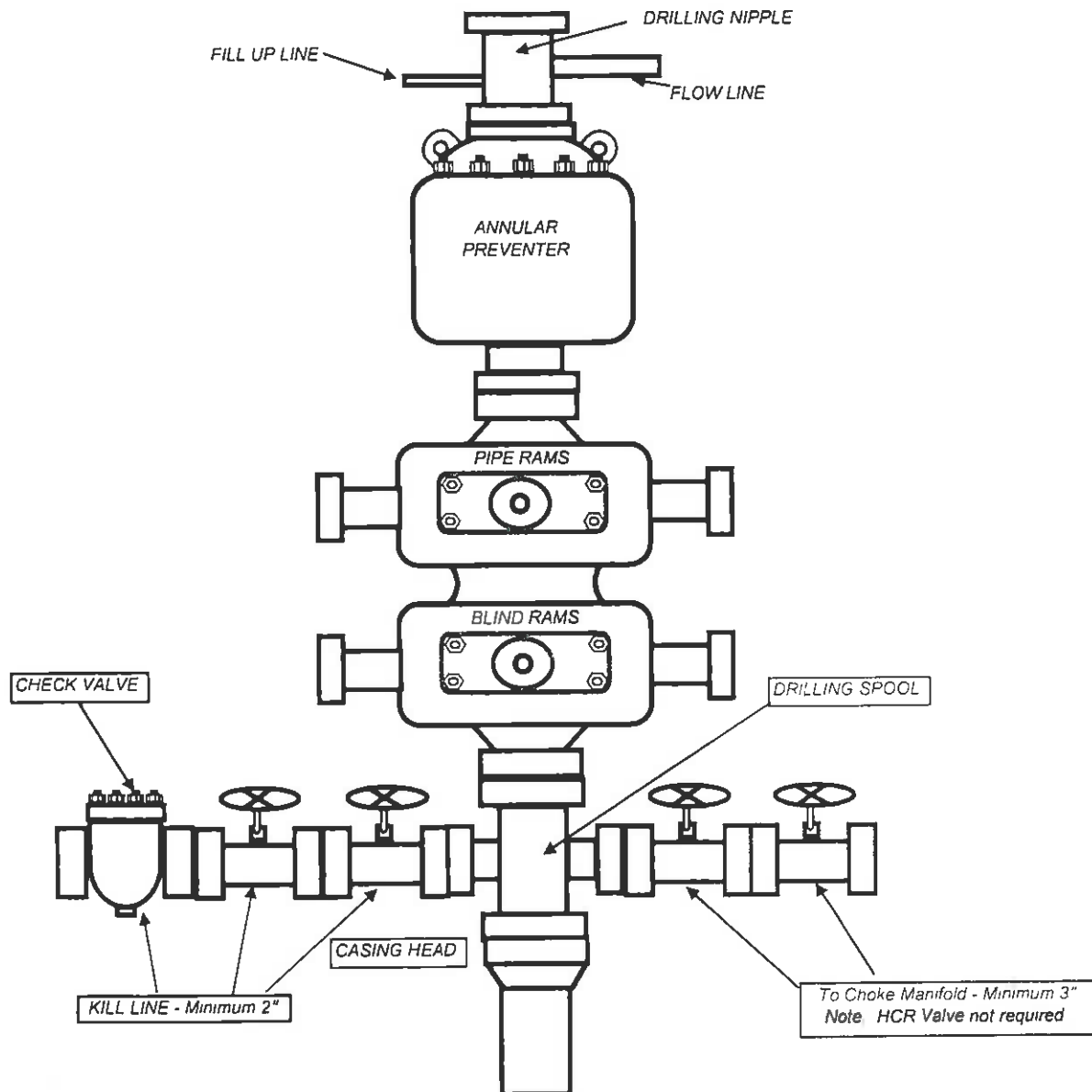
I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

Executed this	<u>30<sup>th</sup></u> day of <u>November</u> 2011
Name:	Venessa Langmacher
Position Title:	Senior Permit Analyst
Address:	1099 18 <sup>th</sup> Street, Suite 2300, Denver, CO 80202
Telephone:	303-312-8172
E-mail:	vlangmacher@billbarrettcorp.com
Field Representative	Kary Eldredge / Bill Barrett Corporation
Address:	1820 W. Highway 40, Roosevelt, UT 84066
Telephone:	435-725-3515 (office); 435-724-6789 (mobile)
E-mail:	keldredge@billbarrettcorp.com

  
\_\_\_\_\_  
Venessa Langmacher, Senior Permit Analyst

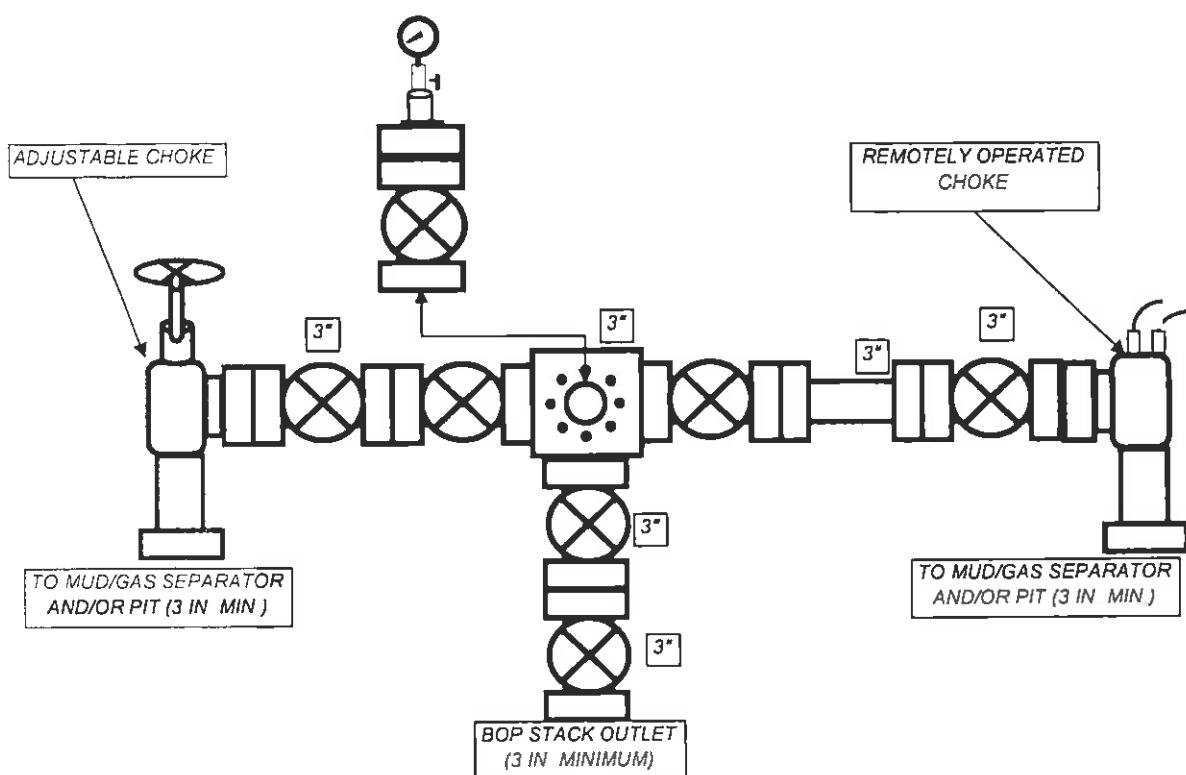
## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





## BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

#12-17-45 BTR & #9H-17-45 BTR  
SECTION 17, T4S, R5W, U.S.B.&M.  
NW 1/4 SW 1/4

FIGURE #1

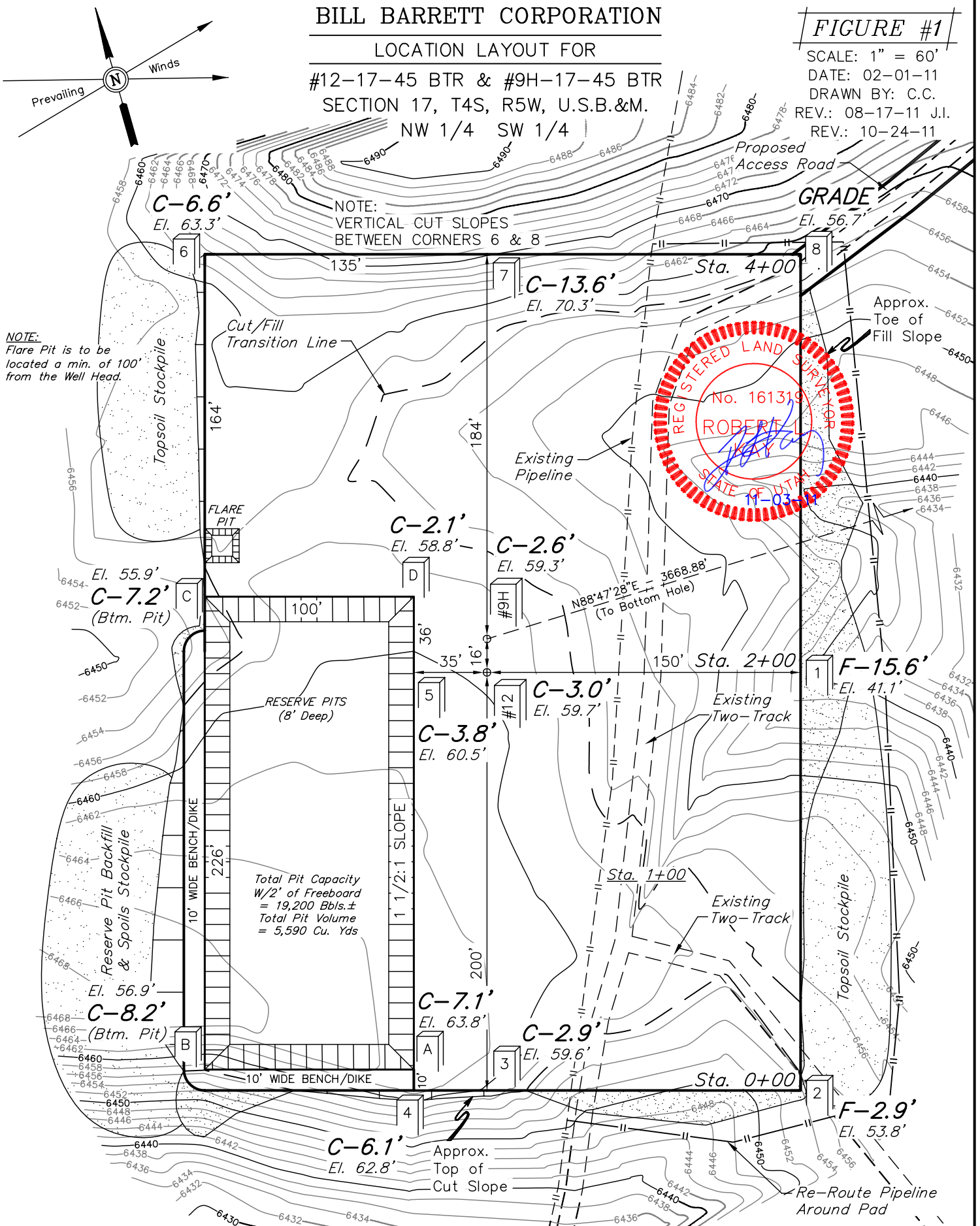
SCALE: 1" = 60'

DATE: 02-01-11

DRAWN BY: C.C.

REV.: 08-17-11 J.I.

REV.: 10-24-11



Elev. Ungraded Ground At #12-17-45 BTR Loc. Stake = 6459.7', UTAH ENGINEERING & LAND SURVEYING  
FINISHED GRADE ELEV. AT #12-17-45 BTR LOC. STAKE = 6456.7' 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: November 30, 2011

**BILL BARRETT CORPORATION****TYPICAL CROSS SECTIONS FOR**

#12-17-45 BTR &amp; #9H-17-45 BTR

SECTION 17, T4S, R5W, U.S.B.&amp;M.

NW 1/4 SW 1/4

**FIGURE #2**

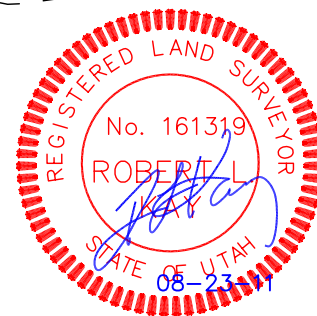
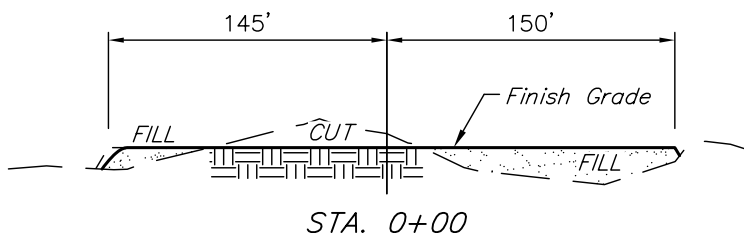
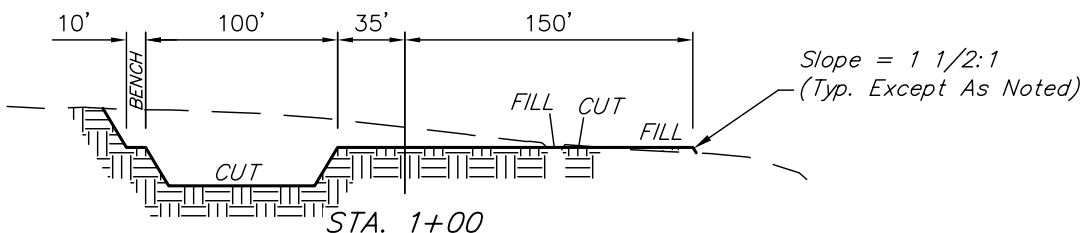
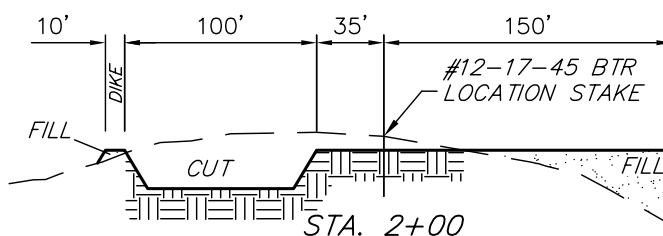
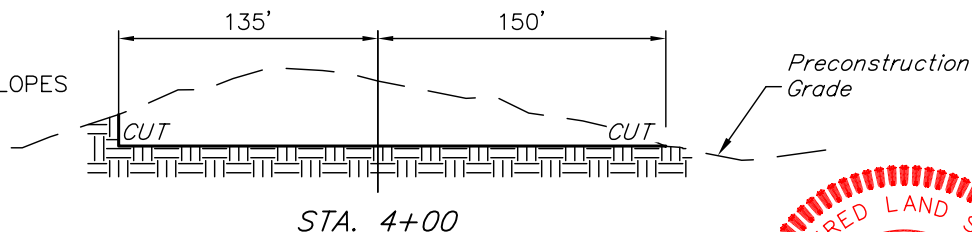
X-Section  
Scale  
1" = 100'

DATE: 02-01-11

DRAWN BY: C.C.

REV.: 08-17-11 J.I.

NOTE:  
VERTICAL CUT SLOPES  
@ STA: 4+00



NOTE:

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 3.461 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.928 ACRES  
TOTAL = ± 4.389 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(12") Topsoil Stripping = 4,920 Cu. Yds.  
Remaining Location = 13,910 Cu. Yds.  
TOTAL CUT = 18,830 CU.YDS.  
FILL = 11,110 CU.YDS.

EXCESS MATERIAL = 7,720 Cu. Yds.  
Topsoil & Pit Backfill = 7,720 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: November 30, 2011



# BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

#12-17-45 BTR & #9H-17-45 BTR  
SECTION 17, T4S, R5W, U.S.B.&M.  
NW 1/4 SW 1/4

**FIGURE #3**

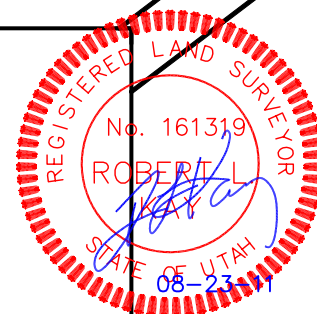
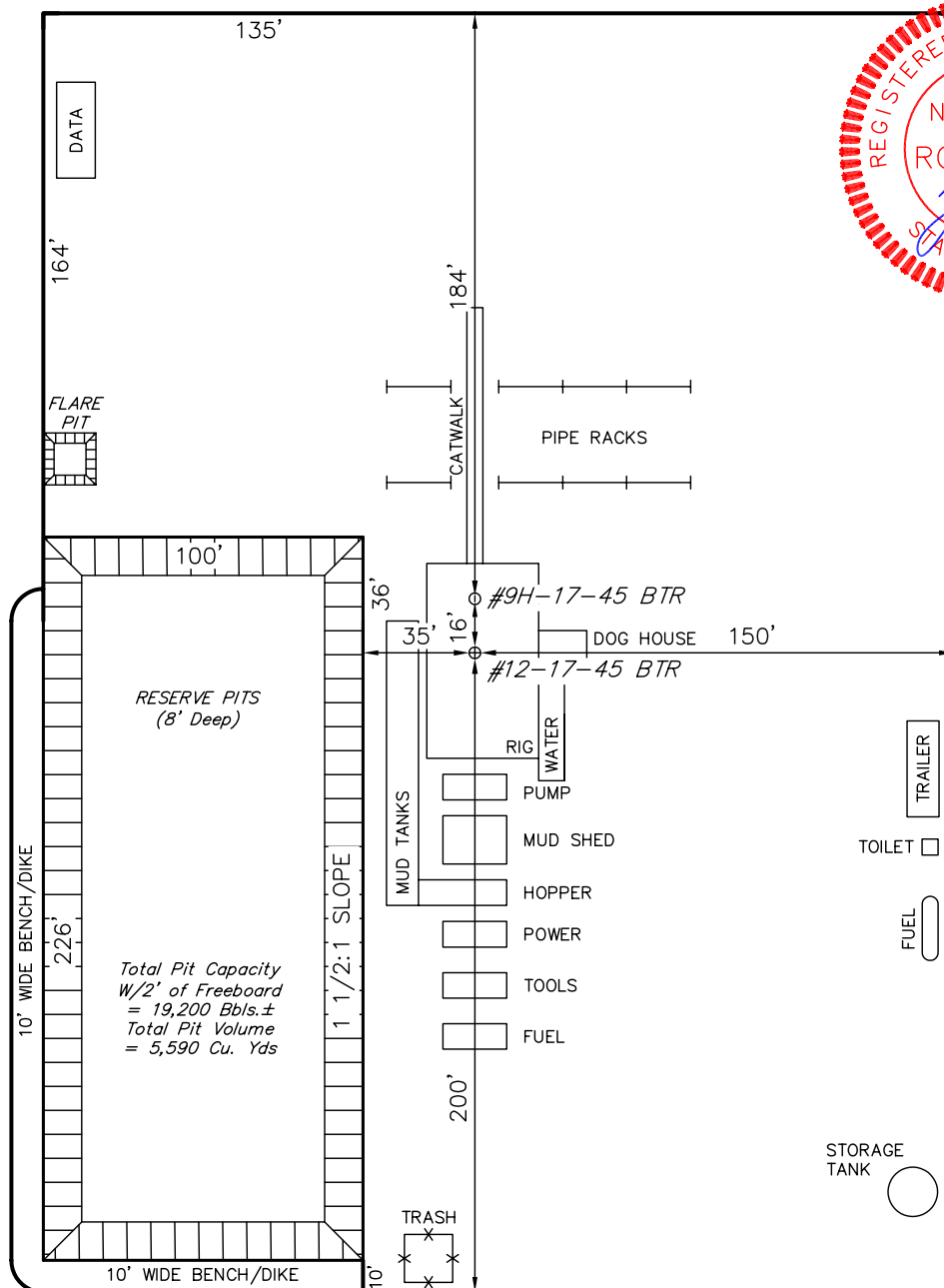
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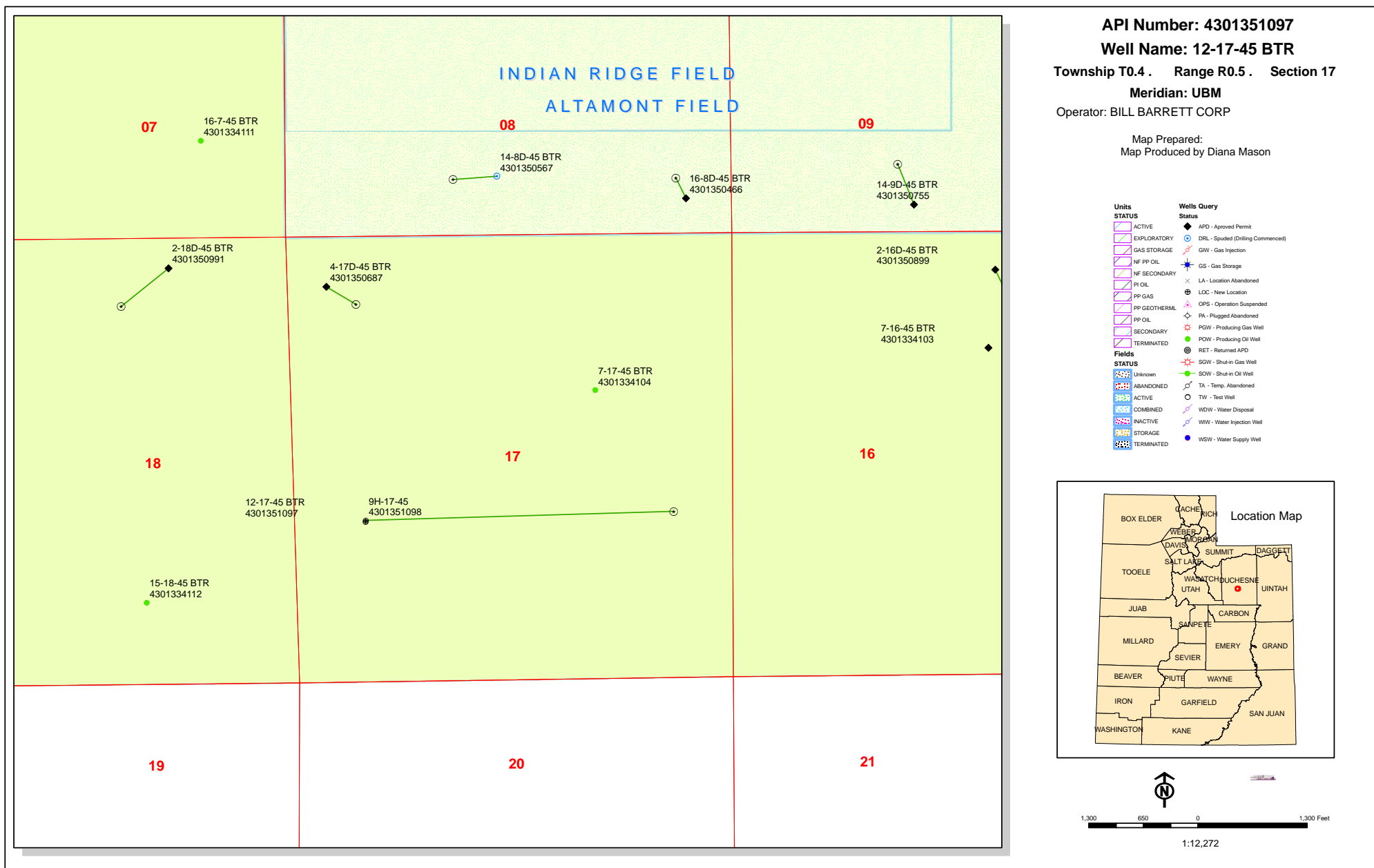
DATE: 02-01-11

DRAWN BY: C.C.

REV.: 08-17-11 J.I.

Proposed  
Access Road





## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/30/2011

API NO. ASSIGNED: 43013510970000

WELL NAME: 12-17-45 BTR

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NWSW 17 040S 050W

Permit Tech Review: ☒

SURFACE: 1909 FSL 0844 FWL

Engineering Review: ☐

BOTTOM: 1909 FSL 0844 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.13091

LONGITUDE: -110.48032

UTM SURF EASTINGS: 544275.00

NORTHINGS: 4442417.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H626402

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: INDIAN - LPM8874725☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-180☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-85

Effective Date: 3/11/2010

Siting: 4 Prod LGRRV-WSTC Wells in Drl Unit

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason

RECEIVED: February 02, 2012



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** 12-17-45 BTR  
**API Well Number:** 43013510970000  
**Lease Number:** 1420H626402  
**Surface Owner:** INDIAN  
**Approval Date:** 2/2/2012

**Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

**Authority:**

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DEC 02 2011

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

## APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H626402
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420	8. Lease Name and Well No. 12-17-45 BTR
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 1909FSL 844FWL 40.130925 N Lat, 110.480308 W Lon At proposed prod. zone NWSW 1909FSL 844FWL 40.130925 N Lat, 110.480308 W Lon		9. API Well No. 43.013.51097
14. Distance in miles and direction from nearest town or post office* 7.1 MILES SOUTHWEST OF DUCHESNE, UT		10. Field and Pool, or Exploratory UNNAMED
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 844'	16. No. of Acres in Lease 640.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 17 T4S R5W Mer UBM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 3156'	19. Proposed Depth 8692 MD 8692 TVD	12. County or Parish DUCHESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6460 GL	22. Approximate date work will start 06/01/2012	13. State UT
23. Estimated duration 60 DAYS (D&C)		17. Spacing Unit dedicated to this well 640.00
20. BLM/BIA Bond No. on file LPM8874725		

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 12/02/2011
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 28 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

UDOGM

Electronic Submission #124555 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by LESLIE ROBINSON on 12/06/2011 ()

RECEIVED

AUG 10 2012

DIV. OF OIL, GAS &amp; MINING

## NOTICE OF APPROVAL

## CONDITIONS OF APPROVAL ATTACHED

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

1550813AE

NRK-9/7/2011





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: 12-17-45 BTR  
API No: 43-013-51097

Location: NWSW, Sec. 17, T4S R5W  
Lease No: 14-20-H62-6402  
Agreement: N/A

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a>
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**Site Specific Conditions of Approval:**

**Additional Stipulations:**

- Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation.
- See Exhibit One of the approved EA U&O-FY12-Q2-071 for additional mitigation measures that must be followed for the proposed action. There are also site specific COAs of concern towards the back of that document that must be adhered to.

**General Conditions of Approval:**

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- Bill Barrett Corporation will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A CBL/GR shall be run from PBTD to the TOC on the production casing or the intermediate casing if used.
- Cement for the production or intermediate casing shall be brought 200 feet above the surface casing shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of



each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or

abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626402
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Uintah
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 12-17-45 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1909 FSL 0844 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 17 Township: 04.0S Range: 05.0W Meridian: U		<b>9. API NUMBER:</b> 43013510970000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>1/1/2014</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

BBC requests a one year extension for the subject APD.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: February 19, 2013

By:

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/21/2013	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43013510970000**

**API:** 43013510970000

**Well Name:** 12-17-45 BTR

**Location:** 1909 FSL 0844 FWL QTR NWSW SEC 17 TWNP 040S RNG 050W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 2/2/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Venessa Langmacher

**Date:** 1/21/2013

**Title:** Senior Permit Analyst **Representing:** BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626402			
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<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 12-17-45 BTR			
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<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT		<b>COUNTY:</b> DUCHESNE			
<b>STATE:</b> UTAH					
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/15/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> BBC requests to revise the 10-3/4" surface casing approved for the subject well to 9-5/8" set at 2200'. Please see revised drilling program attached.					
<div style="text-align: right;"> <b>Accepted by the              Utah Division of              Oil, Gas and Mining</b>   <b>Date:</b> March 05, 2013  <b>By:</b> </div>					
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher		<b>PHONE NUMBER</b> 303 312-8172			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Senior Permit Analyst			
<b>DATE</b> 3/1/2013					

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

**12-17-45 BTR**

NW SW, 1909' FSL and 844' FWL, Section 17, T4S-R5W, USB&M  
Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth</u></b>
Green River	2,312'
Mahogany	2,922'
Lower Green River*	4,272'
Douglas Creek	5,142'
Black Shale	5,992'
Castle Peak	6,222'
Uteland Butte	6,522'
Wasatch*	6,747'
TD	8,692'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 2,200'	No pressure control required
2,200' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b> <b><u>(FROM) (TO)</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
26"	Surface	80'	16"	65#			
12 1/4"	Surface	2,200'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New



Bill Barrett Corporation  
Drilling Program  
12-17-45 BTR  
Duchesne County, Utah

5. **Cementing Program**

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 310 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1,700'
5 1/2" Production Casing	Lead: 630 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,700' Tail: 860 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 5,492'

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2,200'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,200' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4339 psi\* and maximum anticipated surface pressure equals approximately 2426 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
12-17-45 BTR  
Duchesne County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

**11. Drilling Schedule**

Location Construction: March 2013  
Spud: March 2013  
Duration: 15 days drilling time  
45 days completion time



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

**Well Name:** 12-17-45 BTR

### Surface Hole Data:

Total Depth:	2,200'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	931.7	ft <sup>3</sup>
Lead Fill:	1,700'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	310
--------------	-----

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,700'	

# SK's Tail:	210
--------------	-----

### Production Hole Data:

Total Depth:	8,692'
Top of Cement:	1,700'
Top of Tail:	5,492'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1436.8	ft <sup>3</sup>
Lead Fill:	3,792'	
Tail Volume:	1212.6	ft <sup>3</sup>
Tail Fill:	3,200'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	630
# SK's Tail:	860

<b>12-17-45 BTR Proposed Cementing Program</b>
--

<u>Job Recommendation</u>	<u>Surface Casing</u>		
<b>Lead Cement - (1700' - 0')</b>			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	1,700'	
	Volume:	165.93	bbl
	<b>Proposed Sacks:</b>	<b>310</b>	<b>sks</b>
<b>Tail Cement - (TD - 1700')</b>			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	1,700'	
	Calculated Fill:	500'	
	Volume:	48.80	bbl
	<b>Proposed Sacks:</b>	<b>210</b>	<b>sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>		
<b>Lead Cement - (5492' - 1700')</b>			
Tuned Light™ System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft³/sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	1,700'	
	Calculated Fill:	3,792'	
	Volume:	255.88	bbl
	<b>Proposed Sacks:</b>	<b>630</b>	<b>sks</b>
<b>Tail Cement - (8692' - 5492')</b>			
Econocem™ System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft³/sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	5,492'	
	Calculated Fill:	3,200'	
	Volume:	215.95	bbl
	<b>Proposed Sacks:</b>	<b>860</b>	<b>sks</b>



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626402
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Uintah
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 12-17-45 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1909 FSL 0844 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 17 Township: 04.0S Range: 05.0W Meridian: U		<b>9. API NUMBER:</b> 43013510970000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: <b>3/28/2013</b>	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 This well was spud on 3/28/2013 at 8:00 am by Triple A Drilling, Rig #TA 4037, Type Soilmec SR/30. Continuous drilling is planned to commence on 4/16/13.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 28, 2013

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/28/2013	

## BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# HP 319  
Submitted By JET LORENZEN Phone Number 970-623-7078  
Well Name/Number #12-17-45 BTR  
Qtr/Qtr NW/SW Section 17 Township 4S Range 5W  
Lease Serial Number 1420H626402  
API Number 43-013-51097-00X1

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing  
☐ Intermediate Casing  
☐ Production Casing  
☐ Liner  
☐ Other

Date/Time 04/03/2013 11:00 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

**RECEIVED**

APR 02 2013

DIV. OF OIL, GAS &amp; MINING

Date/Time 04/04/2013 17:00 AM ☐ PM ☒

Remarks \_\_\_\_\_  
\_\_\_\_\_

## BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# H&P 319  
Submitted By Glenn Randel Phone Number 970-623-7078  
Well Name/Number 12-17-45 BTR  
Qtr/Qtr NW/SW Section 17 Township 4S Range 5W  
Lease Serial Number 1420H626402  
API Number 43-013-51097-00-X1

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Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing  
☐ Intermediate Casing  
☒ Production Casing  
☐ Liner  
☐ Other

RECEIVED

APR 10 2013

DIV. OF OIL, GAS & MINING

Date/Time 4/11/13 07:00 AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_  
\_\_\_\_\_

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626402
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Uintah
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> 12-17-45 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013510970000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1909 FSL 0844 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 17 Township: 04.0S Range: 05.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>5/5/2013</b>	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well had first gas sales on 5/5/13.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 06, 2013

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/6/2013



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> 12-17-45 BTR
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		<b>STATE:</b> UTAH

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CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the April 2013 Drilling Activity for this well.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 10, 2013

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/3/2013

**12-17-45 BTR 4/1/2013 06:00 - 4/2/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	1	RIGUP & TEARDOWN	RIG DN AND MOVE. RIG UP DERRICK ON FLOOR. BACKYARD SET. WILL RAISE DERRICK IN MORNING.
20:00	10.00	06:00	1	RIGUP & TEARDOWN	WO DAY LIGHT

**12-17-45 BTR 4/2/2013 06:00 - 4/3/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	1	RIGUP & TEARDOWN	RIG UP, TRUCKS AND CRANES RELEASED @ 11:00
16:00	3.00	19:00	14	NIPPLE UP B.O.P	WELD ON CONDUCTOR AND NIPPLE UP SAME
19:00	1.00	20:00	6	TRIPS	PICK UP BHA.
20:00	0.75	20:45	20	DIRECTIONAL WORK	INSTALL MWD, OREINTATE
20:45	11.75	08:30	2	DRILL ACTUAL	DRLG 12 1/4" HOLE F/ 104' TO 1603' (1499' IN 11.75 HR = 127.6 FPH) SLIIDE:105' IN 1.25 HR = 84 FPH, ROTATE: 1394' IN 10.5 HR = 132.8 FPH. MM 8" HUNTING 7/8 LOBE 3.4 STAGE .09 RPG 1.5 DEGREE FIXED 8.35' BTB. 11.24' F/ CENTER.

**12-17-45 BTR 4/3/2013 06:00 - 4/4/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1603-1634'. ROP 62 FPH.
06:30	0.50	07:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1634-1646'. ROP 24 FPH.
07:00	0.75	07:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1646-1728'. ROP 109.3 FPH.
07:45	0.50	08:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1728-1746'. ROP 36 FPH.
08:15	0.75	09:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1746-1823'. ROP 102.7 FPH.
09:00	0.50	09:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1823-1845'. ROP 44 FPH.
09:30	0.75	10:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1845-1917'. ROP 96 FPH.
10:15	0.50	10:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1917-1937'. ROP 40 FPH.
10:45	0.25	11:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1937-1964'. ROP 108 FPH.
11:00	0.50	11:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1964-1982'. ROP 36 FPH.
11:30	0.25	11:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1982-2011'. ROP 58 FPH.
11:45	0.50	12:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2011-2031'. ROP 40 FPH.
12:15	0.50	12:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2031-2058'. ROP 54 FPH.
12:45	0.50	13:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2058-2078'. ROP 40 FPH.
13:15	0.50	13:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2078-2105'. ROP 54 FPH.
13:45	1.25	15:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2105-2135'. ROP 24 FPH.
15:00	0.50	15:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2135-2152'. ROP 34 FPH.
15:30	1.25	16:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2152-2182'. ROP 24 FPH.
16:45	0.75	17:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2182-2200'. ROP 24 FPH.
					ROP SLOW, INCREASE WOB 28 TO 32K. SINCE ~1800', MUCH SLIDING REQUIRED ATTEMPTING TO MAINTAIN HOLE ANGLE BELOW 2 DEG.
17:30	0.50	18:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
18:00	2.00	20:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2200-2235'. ROP 17.5 FPH.
20:00	0.50	20:30	5	COND MUD & CIRC	PUMP 50 BBL HIVIS/LCM SWEEP & CIRC 1.5 BOTTOMS UP. PUMP SLUG.
20:30	2.50	23:00	6	TRIPS	TRIP TO 327'.
23:00	0.50	23:30	5	COND MUD & CIRC	PUMP 50 BBL HIVIS/LCM SWEEP & CIRCULATE 1 1/2 BOTTOMS UP. PUMP SLUG.
23:30	3.50	03:00	6	TRIPS	POH. LAY DOWN 8" TOOLS.  BIT #1 COND: 8-1-RO-N-X-I-BT-TD.
03:00	1.25	04:15	12	RUN CASING & CEMENT	HELD PJSM & RIG UP WEATHERFORD CASING TOOLS. POWER TONGS BROKE DOWN WHILD MAKING UP SHOE TRACK.
04:15	1.00	05:15	12	RUN CASING & CEMENT	REPLACE POWER TONGS.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
05:15	0.75	06:00	12	RUN CASING & CEMENT	FINISH MAKE UP & THREADLOCK 1 JT SHOE TRACK. CIRCULATE THRU SHOE TRACK. RUN 5 JTS 9 5/8 SURFACE CASING. DETAILS ON NEXT REPORT.

**12-17-45 BTR 4/4/2013 06:00 - 4/5/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.75	08:45	12	RUN CASING & CEMENT	RUN TOTAL OF 51 JTS 9 5/8, 36#, J55, STC, R3 CASING. LAND CASING W/SHOE @ 2229' & FLOAT COLLAR @ 2182'. FILL CASING EVERY 5 JTS.
08:45	0.75	09:30	5	COND MUD & CIRC	RIG UP CIRC HOSE & CIRCULATE 1.5 CASING CAPACITY WHILE RECIPROCATING.
09:30	3.00	12:30	12	RUN CASING & CEMENT	LAND CASING IN SLIPS & INSTALL CEMENT HEAD/LINE.  HOWCO PUMPED 3 BBL WATER & TESTED LINE TO 3000 PSI. PUMP 20 BBL WATER SPACER, 40 BBL SUPER FLUSH 101 @ 10 PPG, 20 BBL WATER SPACER, 340 SX (191 BBL) LEAD @ 11 PPG, 240 SX (57 BBL) TAIL @ 14.8 PPG. DROPPED TOP PLUG & DISPLACED W/163 BBL 8.9 PPG MUD. BUMPED PLUG W/850 PSI OVER FDP, TOTAL PRESSURE 1550 PSI. HELD 10 MIN. BLED OFF 1 1/4 BBL & FLOATS HELD. CIP @ 11:42 HRS. FULL RETURNS THROUGHOUT JOB. 103 BBL GOOD CEMENT TO SURFACE.  RIG DOWN CEMENT HEAD/LINE.
12:30	2.00	14:30	13	WAIT ON CEMENT	WASH UP SURFACE SYSTEM. CUT/LIFT 16" RISER. COMMENCE DRAINING 9 5/8. WOC. SLACK OFF CASING @ 14:30 HRS.
14:30	2.75	17:15	14	NIPPLE UP B.O.P	ROUGH CUT CASING & LAY DOWN RISER & CUTOFF. FINAL CUT CASING & INSTALL CASING HEAD W/TOP 4" BELOW GROUND LEVEL. TEST WELD TO 1400 PSI W/N2.  MANUALLY TOP OUT 8' OF CEMENT IN 9 5/8 X 16" ANNULUS.
17:15	2.25	19:30	14	NIPPLE UP B.O.P	HELD PJSM & NIPPLE UP BOPE. INSTALL FLOWLINE.
19:30	5.50	01:00	15	TEST B.O.P	TEST BOPE. RAMS, VALVES, SAFETY, GRAY VALVES, IBOP'S, CHOKE MANIFOLD, CHOKE TO 250/5000 PSI FOR 10 MIN EACH TEST. TEST ANNULAR TO 250/3500 PSI FOR 5/10 MIN EACH TEST. TEST CASING TO 1500 PSI FOR 30 MIN.
01:00	0.50	01:30	14	NIPPLE UP B.O.P	INSTALL WEAR BUSHING.
01:30	3.25	04:45	6	TRIPS	MAKE UP 8 3/4 BHA & RIH TO 2092'.
04:45	0.75	05:30	3	REAMING	FILL STRING & WASH TO FLOAT COLLAR @ 2181'.
05:30	0.50	06:00	3	REAMING	DRILL ON FLOAT COLLAR.

**12-17-45 BTR 4/5/2013 06:00 - 4/6/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.25	06:15	3	REAMING	DRILL SHOE TRACK & WASH TO TD (2235').
06:15	0.25	06:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2235-2245'. ROP 40 FPH.
06:30	0.25	06:45	5	COND MUD & CIRC	CIRCULATE, SPOT 50 BBL 20% BULK LCM PILL ON BOTTOM.
06:45	2.25	09:00	22	OPEN	ATTEMPT FIT TO 10.5 PPG EMW W/O SUCCESS. PRESSURED UP 14 TIMES TO 220 PSI. PRESSURE BLED DOWN TO 100 PSI IN ~4 MIN. ATTEMPTED TO SPOT A #3 DRILLCHEM & STRING PLUGGED. UNABLE TO CLEAR.  #3 DRILLCHEM PILL CONTAINS: 20 PPB FIT, 20 PPB DRILL-SEAL M, 10 PPB DRILL-SEAL C, & 5 PPB DRILL-SEAL C. EQUIVALENT TO 30% LCM.
09:00	1.75	10:45	6	TRIPS	POH W/PLUGGED STRING TO 74'.
10:45	1.75	12:30	6	TRIPS	CLEAN LCM PLUG FROM SPERRY TOOLS. LAY DOWN PLUGGED MOTOR.
12:30	0.50	13:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
13:00	1.25	14:15	8	REPAIR RIG	PULL WEAR BUSHING & INSTALL & LOCK DOWN TEST PLUG. OPEN UPPER PIPE RAM DOOR & REPLACE LEAKING HYDRAULIC FITTING. CLOSE DOOR & TEST HYDRAULICS.  CLOSE UPPER PIPE RAMS, OPEN WELLHEAD VALVE & TEST OPENED DOOR TO 250/5000 PSI FOR 5/10 MIN.
14:15	0.25	14:30	22	OPEN	CLOSE BLIND RAMS & PERFORM FIT TO 10.5 PPG EMW. APPLIED 220 PSI SURFACE PRESSURE OVER 8.6 PPG MUD.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:30	2.00	16:30	6	TRIPS	PICK UP NEW MOTOR, SCRIBE TO MWD & RIH.
16:30	1.00	17:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2245-2306'. ROP 61 FPH.
17:30	0.75	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2306-2326'. ROP 26.7 FPH.
18:15	0.25	18:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2326-2361'. ROP 140 FPH.
18:30	0.25	18:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2361-2371'. ROP 40 FPH.
18:45	0.75	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2371-2455'. ROP 112 FPH.
19:30	0.25	19:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2455-2467'. ROP 48 FPH.
19:45	0.50	20:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2467-2549'. ROP 164 FPH.
20:15	0.50	20:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2549-2563'. ROP 28 FPH.
20:45	0.50	21:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2563-2643'. ROP 160 FPH.
21:15	0.25	21:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2643-2657'. ROP 56 FPH.
21:30	0.50	22:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2657-2738'. ROP 162 FPH.
22:00	0.25	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2738-2756'. ROP 72 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2756-2832'. ROP 152 FPH.
22:45	0.25	23:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2832-2846'. ROP 56 FPH.
23:00	0.25	23:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2846-2926'. ROP 320 FPH.
23:15	0.50	23:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2926-2942'. ROP 32 FPH.
23:45	0.50	00:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2942-3020'. ROP 156 FPH.
00:15	0.25	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3020-3028'. ROP 32 FPH.
00:30	0.50	01:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3028-3115'. ROP 174 FPH.
01:00	0.25	01:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3115-3127'. ROP 48 FPH.
01:15	0.25	01:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3127-3209'. ROP 328 FPH.
01:30	0.25	01:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3209-3217'. ROP 32 FPH.
01:45	0.50	02:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3217-3303'. ROP 172 FPH.
02:15	0.50	02:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3303-3303'. ROP 24 FPH.
02:45	0.50	03:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3315-3397'. ROP 164 FPH.
03:15	0.25	03:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3397-3411'. ROP 56 FPH.
03:30	0.50	04:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3411-3491'. ROP 160 FPH.
04:00	0.25	04:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3491-3499'. ROP 32 FPH.
04:15	0.25	04:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3499-3510'. ROP 44 FPH.
					LOST ALL RETURNS. BACK OFF PUMPS.
04:30	0.50	05:00	5	COND MUD & CIRC	BACK OFF PUMPS, BYPASS SHAKERS, BUILD VOLUME, INCREASE LCM IN SYSTEM. STAGE UP PUMPS.
05:00	1.00	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3510-3617'. ROP 107 FPH.

**12-17-45 BTR 4/6/2013 06:00 - 4/7/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3617-3775'. ROP 158 FPH.
					SHAKE OUT LCM AT 3740'.
07:00	0.25	07:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3775-3783'. ROP 32 FPH.
					CONTINUE STEADY MIXING OF LCM. OBSERVING ~20 BPH SEEPAGE LOSSES.
07:15	1.50	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3783-3963'. ROP 120 FPH.
08:45	0.50	09:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3963-3971'. ROP 16 FPH.
09:15	1.50	10:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3971-4152'. ROP 120.7 FPH.
10:45	0.50	11:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4152-4162'. ROP 20 FPH.
11:15	0.75	12:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4162-4246'. ROP 112 FPH.
12:00	0.25	12:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4246-4254'. ROP 32 FPH.
12:15	2.75	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4254-4529'. ROP 100 FPH.
15:00	0.50	15:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:30	0.75	16:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4529-4623'. ROP 125.3 FPH.
16:15	0.50	16:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4623-4635'. ROP 24 FPH.
16:45	0.75	17:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4635-4717'. ROP 109.3 FPH.
17:30	0.75	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4717-4732'. ROP 20 FPH.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:15	0.75	19:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4732-4811'. ROP 105.3 FPH.
19:00	0.50	19:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4811-4821'. ROP 20 FPH.
19:30	0.75	20:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4821-4906'. ROP 113.3 FPH.
20:15	0.75	21:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4906-4916'. ROP 13.3 FPH.
21:00	0.75	21:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4916-5000'. ROP 112 FPH.
21:45	0.50	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5000-5012'. ROP 24 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5012-5094'. ROP 164 FPH.
22:45	0.50	23:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5094-5112'. ROP 36 FPH.
23:15	0.75	00:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5112-5188'. ROP 101.3 FPH.
00:00	0.75	00:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5188-5210'. ROP 29.3 FPH.
00:45	0.50	01:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5210-5283'. ROP 146 FPH.
01:15	1.25	02:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5283-5315'. ROP 25.6 FPH.
02:30	0.25	02:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5315-5330'. ROP 60 FPH.
02:45	1.00	03:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5330-5348'. ROP 18 FPH.
03:45	0.25	04:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5348-5377'. ROP 116 FPH.
04:00	0.75	04:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5377-5395'. ROP 24 FPH.
04:45	0.25	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5395-5424'. ROP 116 FPH.
05:00	1.00	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5424-5432'. ROP 8 FPH.

**12-17-45 BTR 4/7/2013 06:00 - 4/8/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5432-5565'. ROP 106.4 FPH.
07:15	0.75	08:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5565-5590'. ROP 33.3 FPH.
08:00	0.50	08:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5590-5660'. ROP 140 FPH.
08:30	1.25	09:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5660-5680'. ROP 16 FPH.
09:45	0.25	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5680-5707'. ROP 108 FPH.
					ANGLE BUILDING AT 3.75 DEG/100' IN ROTATION.
10:00	3.00	13:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5707-5754'. ROP 15.7 FPH.
13:00	0.50	13:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
13:30	0.75	14:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5754-5775'. ROP 28 FPH.
14:15	0.25	14:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5775-5801'. ROP 104 FPH.
14:30	0.75	15:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5801-5821'. ROP 26.7 FPH.
15:15	0.25	15:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5821-5848'. ROP 108 FPH.
15:30	0.75	16:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5848-5869'. ROP 28 FPH.
16:15	0.50	16:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5869-5943'. ROP 148 FPH.
16:45	1.00	17:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5943-5963'. ROP 20 FPH.
17:45	0.25	18:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5963-5990'. ROP 108 FPH.
18:00	1.00	19:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5990-6009'. ROP 19 FPH.
19:00	0.50	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6009-6037'. ROP 56 FPH.
19:30	0.50	20:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6037-6053'. ROP 32 FPH.
20:00	2.50	22:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6053-6319'. ROP 106.4 FPH.
22:30	0.25	22:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6319-6327'. ROP 32 FPH.
					BYPASS SHAKERS & INCREASE LCM CONTENT.
22:45	0.50	23:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6327-6366'. ROP 78 FPH.
23:15	0.50	23:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6366-6381'. ROP 30 FPH.
23:45	0.50	00:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6381-6414'. ROP 66 FPH.
00:15	2.75	03:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6414-6451'. ROP 13.5 FPH.
03:00	0.25	03:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6451-6461'. ROP 40 FPH.
03:15	1.25	04:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6461-6486'. ROP 20 FPH.
04:30	0.25	04:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6486-6508'. ROP 88 FPH.
04:45	1.25	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6508-6528'. ROP 16 FPH.
					REQUIRING MUCH SLIDING TO EVEN HALF-WAY CONTROL INCLINATION.

**12-17-45 BTR 4/8/2013 06:00 - 4/9/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6528-6555'. ROP 27 FPH. SHAKE OUT LCM.
07:00	1.25	08:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6555-6575'. ROP 16 FPH.
08:15	0.50	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6575-6602'. ROP 54 FPH.
08:45	1.00	09:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6602-6622'. ROP 20 FPH.
09:45	0.25	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6622-6649'. ROP 108 FPH.
10:00	1.75	11:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6649-6669'. ROP 11.4 FPH.
11:45	0.25	12:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6669-6697'. ROP 112 FPH.
12:00	1.25	13:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6697-6717'. ROP 16 FPH.
13:15	0.25	13:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6717-6744'. ROP 108 FPH.
13:30	1.00	14:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6744-6760'. ROP 16 FPH.
14:30	0.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6760-6791'. ROP 62 FPH.
15:00	0.50	15:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:30	1.00	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6791-6816'. ROP 25 FPH.
16:30	0.50	17:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6816-6838'. ROP 44 FPH. CONTROL ROP IN ATTEMPT TO PREVENT HOLE FROM WALKING.
17:00	1.00	18:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6838-6858'. ROP 20 FPH.
18:00	0.25	18:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6858-6885'. ROP 120 FPH. CONTROL ROP TO 80 FPH.
18:15	1.25	19:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6885-6904'. ROP 15.2 FPH.
19:30	0.75	20:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6904-6932'. ROP 37.3 FPH. CONTROL ROP IN ATTEMPT TO REDUCE ANGLE BUILD.
20:15	1.25	21:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6932-6947'. ROP 12 FPH.
21:30	0.75	22:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6947-6980'. ROP 44 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6980-6993'. ROP 26 FPH.
22:45	0.75	23:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6993-7027'. ROP 40 FPH.
23:30	0.25	23:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7027-7035'. ROP 32 FPH.
23:45	0.75	00:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7035-7074'. ROP 52 FPH.
00:30	0.75	01:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7074-7086'. ROP 16 FPH.
01:15	0.50	01:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7086-7121'. ROP 70 FPH.
01:45	1.00	02:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7121-7136'. ROP 15 FPH.
02:45	0.75	03:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7136-7160'. ROP 32 FPH.
03:30	1.00	04:30	8	REPAIR RIG	THAW FROZEN AIR LINE OUTSIDE VFD HOUSE. DRAWWORKS BRAKE NOT WORKING.
04:30	0.50	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7160-7168'. ROP 16 FPH.
05:00	0.75	05:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7168-7188'. ROP 26.7 FPH.
05:45	0.25	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7188-7200'. ROP 48 FPH. CONTROL ROTATING ROP TO 50 FPH W/50 RPM IN ATTEMPT TO REDUCE SLIDING TIME.

**12-17-45 BTR 4/9/2013 06:00 - 4/10/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7200-7262'. ROP 41.3 FPH. CONTROLLING ROP TO 50 FPH IN ATTEMPT TO REDUCE SLIDING TIME.
07:30	1.50	09:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7262-7282'. ROP 13.3 FPH.
09:00	1.50	10:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7282-7356'. ROP 49.3 FPH. CONTROL ROP TO 60 FPH.
10:30	0.50	11:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7356-7376'. ROP 40 FPH.
11:00	3.75	14:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7376-7545'. ROP 45.1 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:45	0.50	15:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:15	7.25	22:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7545-8015' (TD). ROP 64.8 FPH. NO LONGER CONTROLLING ROP.  LOSING MUD AT ~7740'. BYPASSING SHAKERS & INCREASING LCM.
22:30	1.00	23:30	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE 1 1/2 BOTTOMS UP.
23:30	2.75	02:15	6	TRIPS	PUMP SLUG & POH TO SHOE. BLOW DOWN MUD LINES.
02:15	3.50	05:45	6	TRIPS	RIH TO 7921'.. FILL STRING AT 4500' & 7921'.
05:45	0.25	06:00	3	REAMING	PRECAUTIONARY WASH TO TD. SCREEN OUT LCM.

**12-17-45 BTR 4/10/2013 06:00 - 4/11/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE & INCREASE VIS TO ~50.
08:00	5.50	13:30	6	TRIPS	FLOW CHECK, PUMP SLUG & POH TO LOG. LAY DOWN SPERRY TOOLS. BIT COND: 1-1-BT-G-X-I-WT-TD.
13:30	2.00	15:30	11	WIRELINE LOGS	HELD PJSM, SPOT LOGGING TRUCK & RIG UP HOWCO LOGGERS.
15:30	3.00	18:30	11	WIRELINE LOGS	RIH W/QUAD COMBO LOGS. LOGGER'S TD 8010'.
18:30	1.25	19:45	11	WIRELINE LOGS	HELD PJSM & RIG DOWN LOGGERS.
19:45	0.50	20:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
20:15	4.25	00:30	6	TRIPS	MAKE UP BIT & RIH TO WIPE HOLE FOR CASING.
00:30	0.75	01:15	5	COND MUD & CIRC	CIRC OUT TRIP GAS. WELL FLOWING W/PUMPS OFF.
01:15	1.00	02:15	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRC 1 1/2 BOTTOMS UP.
02:15	3.75	06:00	6	TRIPS	POH LAYING DOWN STRING.

**12-17-45 BTR 4/11/2013 06:00 - 4/12/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	POH LAY DOWN STRING.
09:00	0.50	09:30	14	NIPPLE UP B.O.P	PULL WEAR BUSHING.
09:30	1.25	10:45	12	RUN CASING & CEMENT	HELD PJSM. RIG UP CRT & CASING TOOLS & INSTALL TRIP NIPPLE.
10:45	7.25	18:00	12	RUN CASING & CEMENT	MAKE UP/THREADLOCK 2 JT SHOE TRACK & CIRCULATE THRU. RUN 152 JTS 5 1/2, 17#, P-110, LTC, R3 CASING TO 6790'. FILL CASING EVERY 5 JTS. BREAK CIRCULATION AT SHOE & 5125'.
18:00	0.50	18:30	8	REPAIR RIG	REPLACE ENCODER ON CRT.
18:30	1.75	20:15	12	RUN CASING & CEMENT	CONTINUE RUNNING 5 1/2 CASING. LAND W/SHOE @ 8005' & FLOAT COLLAR @ 7912'. MINIMAL RETURNS FROM ~5500'. SLOW RUNNING SPEED. WASH DOWN LAST JOINT.
20:15	1.75	22:00	5	COND MUD & CIRC	CIRCULATE CASING WHILE RIGGING UP HALLIBURTON. FULL RETURNS.
22:00	4.25	02:15	12	RUN CASING & CEMENT	HELD PJSM. INSTALL CEMENT HEAD, FILL LINE W/WATER & TEST LINE TO 5000 PSI. HOWCO PUMPED 7 BBL WATER, 40 BBL SUPER FLUSH 101 @ 10 PPG, 10 BBL WATER. CEMENTED W/590 SX (244 BBL) TUNED LIGHT + 1.0 PPS GRANULITE + 0.125 PPS POLY-E-FLAKE + 0.85% HR-601 @ 11 PPG & 585 SX (149 BBL) BONDCEM + 1.0 PPS GRANULITE + 0.125 PPS POLY-E-FLAKE @ 13.5 PPG. DROPPED TOP PLUG & DISPLACED W/183 BBL WATER + 0.3 GAL/1000 CLA-WEB + ALDACIDE. BUMPED PLUG W/600 PSI OVER FDP, TOTAL PRESSURE 2150 PSI. HELD 10 MIN. BLEED OFF 1 BBL & FLOATS HELD. RETURNS SLOWED & BECAME A TRICKLE AT 165 BBL DISPLACEMENT. NO CEMENT OBSERVED AT SURFACE. CIP @ 01:34 HRS.  RIG DOWN CEMENT HEAD/LINE.
02:15	2.50	04:45	14	NIPPLE UP B.O.P	WASH WATER THRU BOP & FLOWLINE. REMOVE FLOWLINE, BREAK HP RISER AT CASING HEAD & LIFT BOP. SET CASING ON SLIPS W/30K OVER STRING WT (205K INDICATOR WT). ROUGH CUT CASING, LAY DOWN CUTOFF.
04:45	1.25	06:00	14	NIPPLE UP B.O.P	REMOVE ROTATING HEAD, C & K LINES.

**12-17-45 BTR 4/12/2013 06:00 - 4/12/2013 09:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	14	NIPPLE UP B.O.P	FINISH ND/STOW BOPE. RIG DOWN CRT & INSTALL NIGHT CAP. FINISH CLEANING MUD TANKS.  RELEASE RIG AT 09:00 HRS, 4/12/13.

**12-17-45 BTR 4/16/2013 06:00 - 4/17/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.
09:00	5.00	14:00	IWHD	Install Wellhead	Safety Meeting With Cameron, Check Surface Casing & 5.5" For Pressure, 0 Psi On Both Sides. N/D 11" Night Cap, Cleaned And Dressed Up 5.5" Csg Top, Set And N/U 11" x 7 1/16" 5k Tbg. Head With 2 1/16" x 5k Gate Valves. Tested Hanger Seals To 7100 Psi, Good Test. Secured Well Head With 7" 5K Night Cap.
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.

**12-17-45 BTR 4/17/2013 06:00 - 4/18/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.
08:00	1.50	09:30	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.
09:30	5.00	14:30	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 7,860', Drilling Report Shows FC At 7,913', 53' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 7,860', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 04-10-2013. Run Repeat Section From 7,860 - 7,600', Log Up Hole. Showed Good Bond From TD To 3,550, 3,550 - 3,100' Fair, 3,100 - 2,970 Ratty. TOC 2,970'. Found Short Joints At 6,848 - 6,869' And 5,970 - 5,992'. Ran With Pressure. Pooh, RD Equipment, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured

**12-17-45 BTR 4/25/2013 06:00 - 4/26/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	START SETTING FRAC LINE. START SETTING FB EQUIP.

**12-17-45 BTR 4/26/2013 06:00 - 4/27/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FILLING FRAC LINE. PLUMB IN FB EQUIP.

**12-17-45 BTR 4/27/2013 06:00 - 4/28/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FILLING FRAC LINE

**12-17-45 BTR 4/28/2013 06:00 - 4/29/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FILLING FRAC LINE

Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. 1420H626402	
2. Name of Operator BILL BARRETT CORPORATION    Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com				6. If Indian, Allottee or Tribe Name	
3. Address    1099 18TH STREET SUITE 2300 DENVER, CO 80202			3a. Phone No. (include area code) Ph: 303-312-8172		
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface    NWSW 1909FSL 844FWL  At top prod interval reported below    NWSW 1945FSL 822FWL  At total depth    NWSW 1937FSL 812FWL				7. Unit or CA Agreement Name and No.  8. Lease Name and Well No. 12-17-45 BTR  9. API Well No. 43-013-51097	
14. Date Spudded 03/28/2013		15. Date T.D. Reached 04/10/2013		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 05/05/2013	
18. Total Depth:    MD    8039 TVD    8036		19. Plug Back T.D.:    MD    7914 TVD    7911		20. Depth Bridge Plug Set:    MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL, GR, TEMP/COLLARS, MUD				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)	

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	104	80				
12.250	9.625 J-55	36.0	0	2235	2229	580	248	0	
8.750	5.500 P-110	17.0	0	8039	8005	1175	393	3080	

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	6067							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	6149	6712	6149 TO 6712	0.360	126	OPEN
B) WASATCH	6745	7822	6745 TO 7822	0.360	180	OPEN
C)						
D)						

## 26. Perforation Record

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6149 TO 6712	SEE ATTACHED STAGES 5-7
6745 TO 7822	SEE ATTACHED STAGES 1-4

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/09/2013	05/09/2013	24		310.0	147.0	38.0	52.0		FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	300 SI	1000.0		310	147	38	474	POW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #209145 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECEIVED: May. 31, 2013



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER MAHOGANY DOUGLAS CREEK BLACK SHALE CASTLE PEAK UTELAND BUTTE WASATCH	2334 2952 5115 5974 6197 6519 6754

## 32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. First gas sales were on 05/05/13 and first oil sales were on 05/09/13. Conductor cemented with grout. Attached is treatment data and end of well report.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #209145 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal**

Name(*please print*) VENESSA LANGMACHER

Title SENIOR PERMIT ANALYST

Signature \_\_\_\_\_ (Electronic Submission)

Date 05/31/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**RECEIVED:** May. 31, 2013

**12-17-45 BTR Completion Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>			
<b>AMOUNT AND TYPE OF MATERIAL</b>			
<u><i>Stage</i></u>	<u><i>BBS Total Fluid</i></u>	<u><i>gal 15% HCl Acid</i></u>	<u><i>lbs 20/40 White Sand</i></u>
1	2949	3943	139900
2	3296	3900	150300
3	3125	3900	150300
4	3096	3952	150980
5	531	15053	
6	526	15057	
7	521	15018	

\*Depth intervals for frac information same as perforation record intervals.

# Bill Barrett Corp

Duchesne County, UT (NAD 1927)

Sec. 17-T4S-R5W

12-17-45 BTR

Plan A

Design: Sperry Final Surveys

## Sperry Drilling Services

### Standard Report

14 May, 2013

Well Coordinates: 656,377.45 N, 2,285,308.53 E (40° 07' 51.48" N, 110° 28' 46.55" W)

Ground Level: 6,457.00 ft

Local Coordinate Origin:

Centered on Well 12-17-45 BTR

Viewing Datum:

RKB 24' @ 6481.00ft (H&P 319)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

**HALLIBURTON**

RECEIVED: May. 31, 2013

# SPERRY-SUN DRILLING SERVICES

## CERTIFIED SURVEY WORK SHEET

OPERATOR:	Bill Barrett Corp.
WELL:	12-17-45 BTR
FIELD:	Black Tail Ridge
RIG:	H&P 319
LEGALS:	Sec. 17-T4S-R5W
COUNTY:	Duchesne
STATE:	Utah
CAL. METHOD:	Min. Curv.
MAG. DECL. APPLIED:	11.30°
VERTICAL SEC. DIR. :	0.000

SSDS Job Number :	900198590
Start Date of Job :	4/2/2013
End Date of Job :	4/10/2013
Lead Directional Driller:	Steve Krueger
	John Masterson
Other SSDS DD's :	
SSDS MWD Engineers :	Alex Lamborn

Geo Pilot Engineer :

	Main Hole =====>	1st Side Track =====>	2nd Side Track =====>	3rd Side Track =====>	4th Side Track =====>
Surface Casing	2229'		Tie On		Tie On
Intermediate Casing	SS		MWD		
	SS				
KOP Depth/Sidetrack MD	104'	KOP	KOP-ST1	KOP-ST2	KOP-ST3
MWD Tie-on	0'				KOP-ST4
First MWD Survey Depth	163'	MWD	MWD	MWD	MWD
Last MWD Survey Depth	7963.00	MWD	MWD	MWD	MWD
Bit Extrapolation @ TD	8015.00	T.D.	T.D.	T.D.	T.D.

The following Sperry Drilling Services personnel, certify the above survey information to be accurate to the best of our knowledge:

Print Name : Steve Krueger

Print Name : John Masterson

Print Name :

Sign Name :

Sign Name :

Sign Name :

Print Name : Alex Lamborn

Print Name :

Print Name :

Sign Name :

Sign Name :

Sign Name :

### Examples of Survey Types:

TieOn	Tie On to Surface Casing (Assumed Vertical), Tie On to existing MWD Survey (prior drilled hole)
MWD	Sperry-Sun Drilling Services (SSDS) Measurement While Drilling (MWD) Survey's
ESS	Sperry-Sun Drilling Services (SSDS) Electronic Survey System (ESS) Survey's
Gyro	Gyro Survey's ; Provided by third party vendor, or by Sperry-Sun Drilling Services (SSDS)
SS	Single Shot (SS) Survey's ; Provided by Sperry-Sun Drilling Services (SSDS) or third party vendor.

RECEIVED: May. 31, 2013

**HALLIBURTON**

Duchesne County, UT (NAD 1927)

**Design Report for 12-17-45 BTR - Sperry Final Surveys**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00
163.00	0.50	322.510	163.00	0.56	-0.43	0.56	0.31
<b>First Sperry MWD Survey @ 163.00' MD</b>							
255.00	0.54	312.740	254.99	1.18	-1.00	1.18	0.11
340.00	0.53	279.580	339.99	1.51	-1.68	1.51	0.36
431.00	0.08	9.550	430.99	1.65	-2.08	1.65	0.59
521.00	0.48	183.790	520.99	1.33	-2.10	1.33	0.62
612.00	0.86	237.480	611.98	0.59	-2.70	0.59	0.76
707.00	1.21	234.700	706.97	-0.38	-4.12	-0.38	0.37
801.00	0.68	253.840	800.95	-1.11	-5.46	-1.11	0.65
895.00	0.34	293.740	894.95	-1.15	-6.25	-1.15	0.50
990.00	0.33	282.340	989.95	-0.98	-6.78	-0.98	0.07
1,084.00	0.76	197.280	1,083.95	-1.51	-7.23	-1.51	0.85
1,178.00	0.91	212.720	1,177.94	-2.74	-7.82	-2.74	0.29
1,272.00	1.18	216.800	1,271.92	-4.14	-8.80	-4.14	0.30
1,367.00	0.88	212.460	1,366.90	-5.54	-9.78	-5.54	0.33
1,461.00	0.82	213.470	1,460.89	-6.71	-10.54	-6.71	0.07
1,555.00	0.47	196.440	1,554.89	-7.64	-11.02	-7.64	0.42
1,649.00	0.84	225.010	1,648.88	-8.50	-11.61	-8.50	0.51
1,744.00	1.01	219.850	1,743.87	-9.63	-12.64	-9.63	0.20
1,838.00	1.61	221.000	1,837.84	-11.27	-14.04	-11.27	0.64
1,932.00	1.83	219.290	1,931.80	-13.42	-15.86	-13.42	0.24
2,026.00	1.75	200.190	2,025.76	-15.93	-17.30	-15.93	0.64
2,156.00	2.30	189.180	2,155.68	-20.37	-18.40	-20.37	0.52
2,254.00	2.68	182.930	2,253.58	-24.60	-18.83	-24.60	0.48
2,309.00	2.13	193.540	2,308.54	-26.88	-19.14	-26.88	1.28
2,403.00	1.06	217.240	2,402.50	-29.27	-20.07	-29.27	1.31
2,497.00	1.02	250.070	2,496.48	-30.25	-21.39	-30.25	0.63
2,591.00	0.83	252.920	2,590.47	-30.73	-22.82	-30.73	0.21
2,686.00	0.82	235.670	2,685.46	-31.32	-24.04	-31.32	0.26
2,780.00	0.38	228.220	2,779.46	-31.90	-24.83	-31.90	0.47
2,874.00	0.35	256.090	2,873.45	-32.18	-25.34	-32.18	0.19
2,968.00	0.45	30.200	2,967.45	-31.93	-25.44	-31.93	0.78
3,063.00	0.51	314.760	3,062.45	-31.31	-25.55	-31.31	0.62
3,157.00	0.24	33.450	3,156.45	-30.85	-25.74	-30.85	0.55
3,251.00	0.26	265.540	3,250.45	-30.70	-25.84	-30.70	0.48
3,345.00	0.29	186.470	3,344.45	-30.96	-26.08	-30.96	0.37
3,439.00	0.81	25.010	3,438.45	-30.59	-25.83	-30.59	1.16
3,534.00	1.62	28.260	3,533.42	-28.80	-24.91	-28.80	0.86
3,628.00	1.55	33.170	3,627.39	-26.57	-23.58	-26.57	0.16
3,723.00	0.94	37.320	3,722.36	-24.87	-22.41	-24.87	0.65
3,817.00	1.28	36.720	3,816.35	-23.42	-21.31	-23.42	0.36
3,911.00	0.71	30.830	3,910.33	-22.07	-20.38	-22.07	0.62
4,005.00	0.97	20.650	4,004.32	-20.83	-19.81	-20.83	0.32
4,100.00	0.34	343.510	4,099.32	-19.81	-19.60	-19.81	0.77
4,194.00	0.94	7.220	4,193.31	-18.77	-19.58	-18.77	0.68
4,288.00	1.21	6.630	4,287.29	-17.02	-19.37	-17.02	0.29
4,383.00	1.71	339.880	4,382.26	-14.70	-19.74	-14.70	0.88
4,477.00	1.22	305.990	4,476.23	-12.79	-21.04	-12.79	1.04
4,571.00	1.48	242.970	4,570.21	-12.75	-22.93	-12.75	1.52



**HALLIBURTON**

Duchesne County, UT (NAD 1927)

**Design Report for 12-17-45 BTR - Sperry Final Surveys**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4,665.00	1.49	235.980	4,664.18	-13.99	-25.02	-13.99	0.19
4,759.00	0.51	253.620	4,758.17	-14.79	-26.44	-14.79	1.08
4,854.00	0.36	179.660	4,853.16	-15.21	-26.84	-15.21	0.57
4,948.00	0.69	179.900	4,947.16	-16.07	-26.84	-16.07	0.35
5,042.00	1.43	176.410	5,041.14	-17.81	-26.76	-17.81	0.79
5,136.00	1.66	180.670	5,135.11	-20.34	-26.71	-20.34	0.27
5,231.00	2.07	157.340	5,230.06	-23.30	-26.06	-23.30	0.90
5,325.00	1.58	133.140	5,324.01	-25.75	-24.46	-25.75	0.96
5,419.00	1.35	74.480	5,417.99	-26.34	-22.45	-26.34	1.54
5,513.00	1.44	157.110	5,511.97	-27.13	-20.92	-27.13	1.96
5,607.00	2.39	189.870	5,605.92	-30.15	-20.80	-30.15	1.50
5,702.00	4.79	193.470	5,700.72	-35.96	-22.06	-35.96	2.54
5,796.00	1.78	202.450	5,794.56	-41.13	-23.53	-41.13	3.24
5,891.00	0.35	215.910	5,889.54	-42.73	-24.27	-42.73	1.52
5,985.00	0.86	38.120	5,983.54	-42.41	-24.00	-42.41	1.29
6,079.00	1.95	8.370	6,077.51	-40.27	-23.33	-40.27	1.36
6,173.00	2.75	15.270	6,171.43	-36.51	-22.51	-36.51	0.90
6,267.00	2.67	329.370	6,265.33	-32.45	-23.03	-32.45	2.25
6,362.00	3.94	297.610	6,360.18	-29.03	-27.05	-29.03	2.30
6,456.00	4.69	317.150	6,453.92	-24.72	-32.52	-24.72	1.74
6,550.00	3.11	322.410	6,547.70	-19.88	-36.69	-19.88	1.72
6,645.00	1.29	302.940	6,642.63	-17.26	-39.16	-17.26	2.04
6,739.00	1.07	314.840	6,736.61	-16.06	-40.67	-16.06	0.35
6,833.00	0.33	328.040	6,830.60	-15.21	-41.44	-15.21	0.80
6,928.00	0.64	46.510	6,925.60	-14.62	-41.20	-14.62	0.69
7,022.00	0.89	55.150	7,019.59	-13.84	-40.22	-13.84	0.29
7,116.00	0.68	62.660	7,113.58	-13.17	-39.12	-13.17	0.25
7,210.00	0.86	52.540	7,207.57	-12.48	-38.07	-12.48	0.24
7,304.00	0.88	51.310	7,301.56	-11.60	-36.94	-11.60	0.03
7,398.00	1.43	71.610	7,395.54	-10.78	-35.27	-10.78	0.72
7,493.00	1.00	112.770	7,490.52	-10.73	-33.38	-10.73	0.99
7,587.00	1.03	139.870	7,584.51	-11.69	-32.08	-11.69	0.51
7,681.00	1.45	164.220	7,678.48	-13.48	-31.21	-13.48	0.71
7,775.00	2.18	182.180	7,772.44	-16.41	-30.95	-16.41	0.98
7,869.00	2.63	188.020	7,866.35	-20.33	-31.32	-20.33	0.54
7,963.00	3.41	189.640	7,960.22	-25.22	-32.09	-25.22	0.83
<b>Last Sperry MWD Survey @ 7963.00' MD</b>							
8,015.00	3.41	189.640	8,012.13	-28.27	-32.61	-28.27	0.00
<b>Straight Line Projection to TD @ 8015.00' MD</b>							

**Design Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
163.00	163.00	0.56	-0.43	First Sperry MWD Survey @ 163.00' MD
7,963.00	7,960.22	-25.22	-32.09	Last Sperry MWD Survey @ 7963.00' MD
8,015.00	8,012.13	-28.27	-32.61	Straight Line Projection to TD @ 8015.00' MD

**HALLIBURTON**

Duchesne County, UT (NAD 1927)

**Design Report for 12-17-45 BTR - Sperry Final Surveys****Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	0.000	Slot	0.00	0.00	0.00

**Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
163.00	8,015.00	Sperry MWD Surveys	MWD

**Targets**

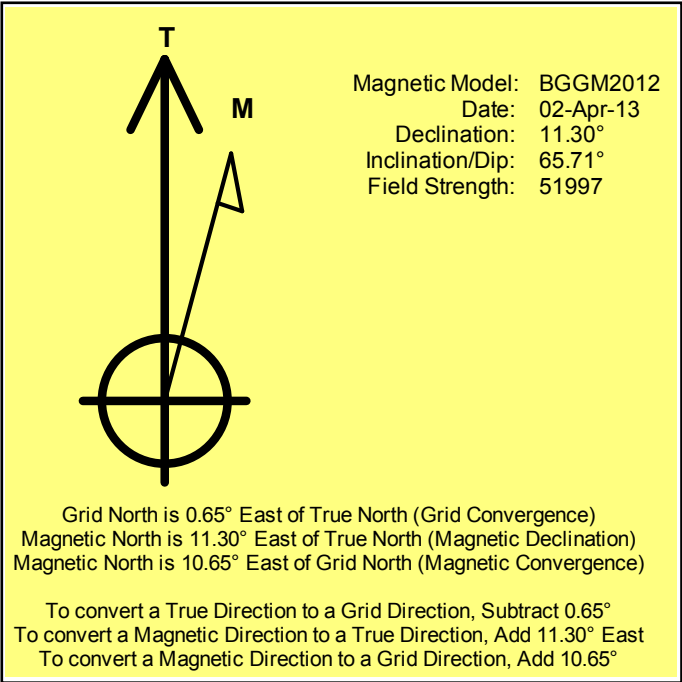
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
12-17-45 BTR_ZONE - actual wellpath misses target center by 34.40ft at 5522.18ft MD (5521.15 TVD, -27.35 N, -20.84 E) - Rectangle (sides W200.00 H200.00 D2,970.00)	0.00	0.00	5,522.00	0.00	0.00	656,377.45	2,285,308.53	40° 7' 51.481 N	110° 28' 46.549 W
12-17-45 BTR_BHL - actual wellpath misses target center by 483.80ft at 8015.00ft MD (8012.13 TVD, -28.27 N, -32.61 E) - Point	0.00	0.00	8,494.00	0.00	0.00	656,377.45	2,285,308.53	40° 7' 51.481 N	110° 28' 46.549 W
12-17-45 BTR_SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	656,377.45	2,285,308.53	40° 7' 51.481 N	110° 28' 46.549 W

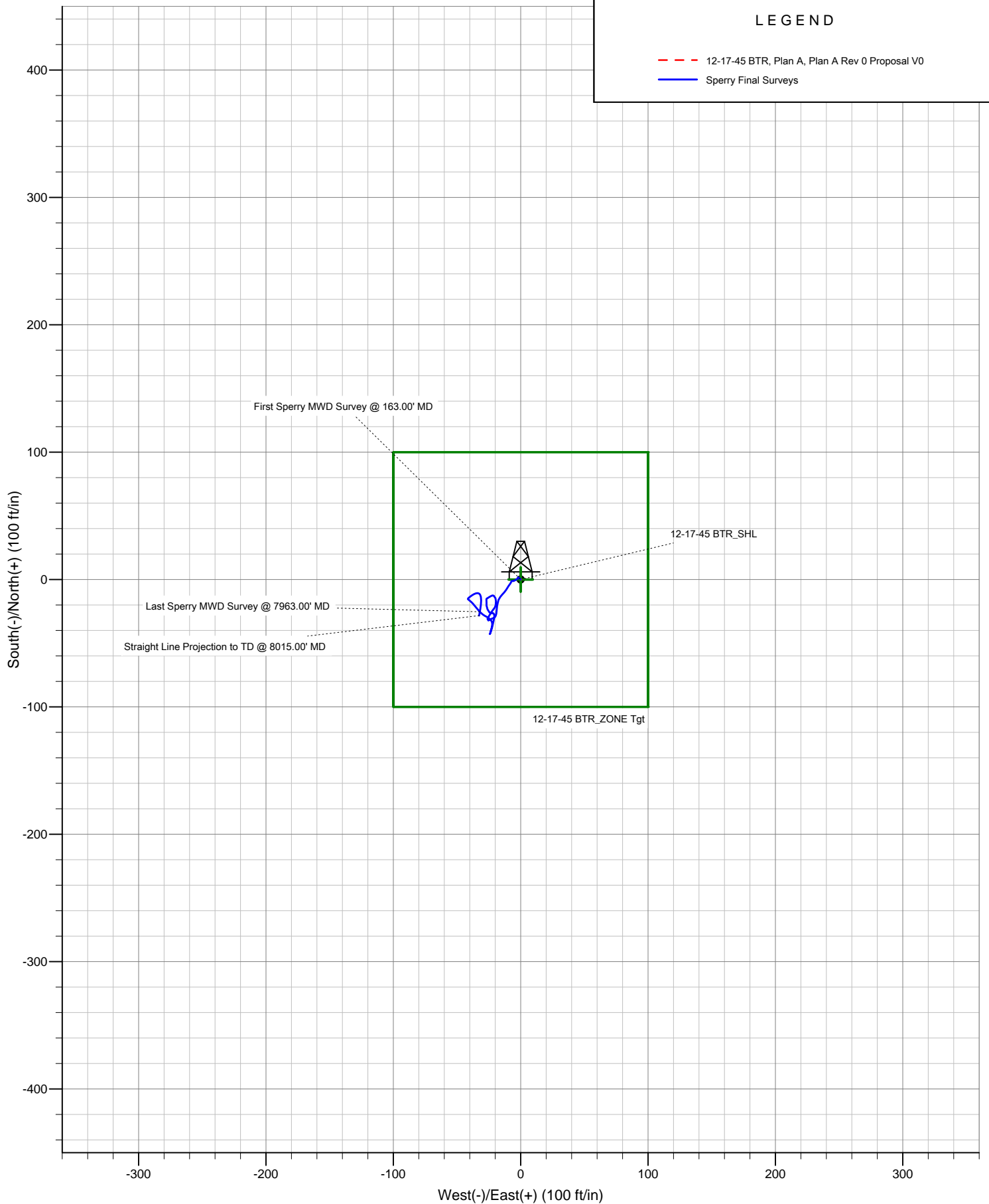
North Reference Sheet for Sec. 17-T4S-R5W - 12-17-45 BTR - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.  
Vertical Depths are relative to RKB 24' @ 6481.00ft (H&P 319). Northing and Easting are relative to 12-17-45 BTR  
Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866  
Projection method is Lambert Conformal Conic (2 parallel)  
Central Meridian is 111° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°  
False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991213

Grid Coordinates of Well: 656,377.45 ft N, 2,285,308.53 ft E  
Geographical Coordinates of Well: 40° 07' 51.48" N, 110° 28' 46.55" W  
Grid Convergence at Surface is: 0.65°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,015.00ft  
the Bottom Hole Displacement is 43.16ft in the Direction of 229.07° (True).  
Magnetic Convergence at surface is: -10.65° ( 2 April 2013, , BGGM2012)



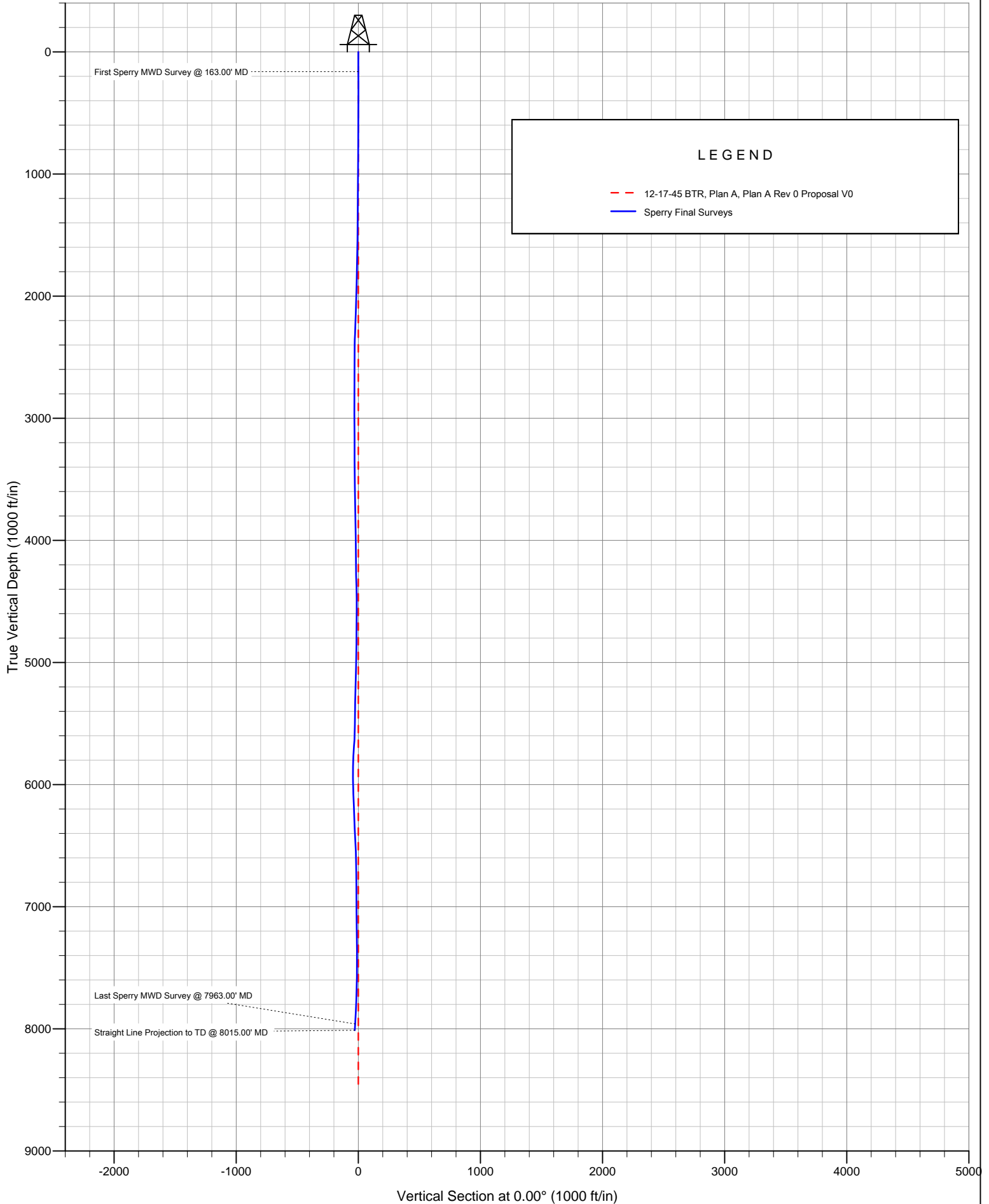


API Well Number: 43013510970000

Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 17-T4S-R5W  
Well: 12-17-45 BTR

Bill Barrett Corp

**HALLIBURTON**  
Sperry Drilling



RECEIVED: May. 31, 2013





# Bill Barrett Corporation

## 12-17-45 BTR 3/31/2013 16:00 - 4/1/2013 06:00

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
16:00	4.00	20:00	1	RIGUP & TEARDOWN	RIG DN ROTARY TOOLS, LOWER DERRICK, FLY WIND WALLS.
20:00	10.00	06:00	1	RIGUP & TEARDOWN	WO DAY LIGHT

## 12-17-45 BTR 4/1/2013 06:00 - 4/2/2013 06:00

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	1	RIGUP & TEARDOWN	RIG DN AND MOVE. RIG UP DERRICK ON FLOOR. BACKYARD SET. WILL RAISE DERRICK IN MORNING.
20:00	10.00	06:00	1	RIGUP & TEARDOWN	WO DAY LIGHT

## 12-17-45 BTR 4/2/2013 06:00 - 4/3/2013 06:00

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	1	RIGUP & TEARDOWN	RIG UP, TRUCKS AND CRANES RELEASED @ 11:00
16:00	3.00	19:00	14	NIPPLE UP B.O.P	WELD ON CONDUCTOR AND NIPPLE UP SAME
19:00	1.00	20:00	6	TRIPS	PICK UP BHA.
20:00	0.75	20:45	20	DIRECTIONAL WORK	INSTALL MWD, OREINTATE
20:45	11.75	08:30	2	DRILL ACTUAL	DRLG 12 1/4" HOLE F/ 104' TO 1603' (1499' IN 11.75 HR = 127.6 FPH) SLIUDE:105' IN 1.25 HR = 84 FPH, ROTATE: 1394' IN 10.5 HR = 132.8 FPH. MM 8" HUNTING 7/8 LOBE 3.4 STAGE .09 RPG 1.5 DEGREE FIXED 8.35' BTB. 11.24' F/ CENTER.

## 12-17-45 BTR 4/3/2013 06:00 - 4/4/2013 06:00

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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### Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1603-1634'. ROP 62 FPH.
06:30	0.50	07:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1634-1646'. ROP 24 FPH.
07:00	0.75	07:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1646-1728'. ROP 109.3 FPH.
07:45	0.50	08:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1728-1746'. ROP 36 FPH.
08:15	0.75	09:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1746-1823'. ROP 102.7 FPH.
09:00	0.50	09:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1823-1845'. ROP 44 FPH.
09:30	0.75	10:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1845-1917'. ROP 96 FPH.
10:15	0.50	10:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1917-1937'. ROP 40 FPH.
10:45	0.25	11:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1937-1964'. ROP 108 FPH.
11:00	0.50	11:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1964-1982'. ROP 36 FPH.
11:30	0.25	11:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1982-2011'. ROP 58 FPH.
11:45	0.50	12:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2011-2031'. ROP 40 FPH.
12:15	0.50	12:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2031-2058'. ROP 54 FPH.
12:45	0.50	13:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2058-2078'. ROP 40 FPH.
13:15	0.50	13:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2078-2105'. ROP 54 FPH.
13:45	1.25	15:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2105-2135'. ROP 24 FPH.
15:00	0.50	15:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2135-2152'. ROP 34 FPH.
15:30	1.25	16:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2152-2182'. ROP 24 FPH.
16:45	0.75	17:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2182-2200'. ROP 24 FPH.
					ROP SLOW, INCREASE WOB 28 TO 32K. SINCE ~1800', MUCH SLIDING REQUIRED ATTEMPTING TO MAINTAIN HOLE ANGLE BELOW 2 DEG.
17:30	0.50	18:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
18:00	2.00	20:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2200-2235'. ROP 17.5 FPH.
20:00	0.50	20:30	5	COND MUD & CIRC	PUMP 50 BBL HIVIS/LCM SWEEP & CIRC 1.5 BOTTOMS UP. PUMP SLUG.
20:30	2.50	23:00	6	TRIPS	TRIP TO 327'.
23:00	0.50	23:30	5	COND MUD & CIRC	PUMP 50 BBL HIVIS/LCM SWEEP & CIRCULATE 1 1/2 BOTTOMS UP. PUMP SLUG.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
23:30	3.50	03:00	6	TRIPS	POH. LAY DOWN 8" TOOLS. BIT #1 COND: 8-1-RO-N-X-I-BT-TD.
03:00	1.25	04:15	12	RUN CASING & CEMENT	HELD PJSM & RIG UP WEATHERFORD CASING TOOLS. POWER TONGS BROKE DOWN WHILE MAKING UP SHOE TRACK.
04:15	1.00	05:15	12	RUN CASING & CEMENT	REPLACE POWER TONGS.
05:15	0.75	06:00	12	RUN CASING & CEMENT	FINISH MAKE UP & THREADLOCK 1 JT SHOE TRACK. CIRCULATE THRU SHOE TRACK. RUN 5 JTS 9 5/8 SURFACE CASING. DETAILS ON NEXT REPORT.

**12-17-45 BTR 4/4/2013 06:00 - 4/5/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.75	08:45	12	RUN CASING & CEMENT	RUN TOTAL OF 51 JTS 9 5/8, 36#, J55, STC, R3 CASING. LAND CASING W/SOHE @ 2229' & FLOAT COLLAR @ 2182'. FILL CASING EVERY 5 JTS.
08:45	0.75	09:30	5	COND MUD & CIRC	RIG UP CIRC HOSE & CIRCULATE 1.5 CASING CAPACITY WHILE RECIPROCATING.
09:30	3.00	12:30	12	RUN CASING & CEMENT	LAND CASING IN SLIPS & INSTALL CEMENT HEAD/LINE.  HOWCO PUMPED 3 BBL WATER & TESTED LINE TO 3000 PSI. PUMP 20 BBL WATER SPACER, 40 BBL SUPER FLUSH 101 @ 10 PPG, 20 BBL WATER SPACER, 340 SX (191 BBL) LEAD @ 11 PPG, 240 SX (57 BBL) TAIL @ 14.8 PPG. DROPPED TOP PLUG & DISPLACED W/163 BBL 8.9 PPG MUD. BUMPED PLUG W/850 PSI OVER FDP, TOTAL PRESSURE 1550 PSI. HELD 10 MIN. BLED OFF 1 1/4 BBL & FLOATS HELD. CIP @ 11:42 HRS. FULL RETURNS THROUGHOUT JOB. 103 BBL GOOD CEMENT TO SURFACE.  RIG DOWN CEMENT HEAD/LINE.
12:30	2.00	14:30	13	WAIT ON CEMENT	WASH UP SURFACE SYSTEM. CUT/LIFT 16" RISER. COMMENCE DRAINING 9 5/8. WOC. SLACK OFF CASING @ 14:30 HRS.
14:30	2.75	17:15	14	NIPPLE UP B.O.P	ROUGH CUT CASING & LAY DOWN RISER & CUTOFF. FINAL CUT CASING & INSTALL CASING HEAD W/TOP 4" BELOW GROUND LEVEL. TEST WELD TO 1400 PSI W/N2.  MANUALLY TOP OUT 8' OF CEMENT IN 9 5/8 X 16" ANNULUS.
17:15	2.25	19:30	14	NIPPLE UP B.O.P	HELD PJSM & NIPPLE UP BOPE. INSTALL FLOWLINE.
19:30	5.50	01:00	15	TEST B.O.P	TEST BOPE. RAMS, VALVES, SAFETY, GRAY VALVES, IBOP'S, CHOKE MANIFOLD, CHOKE TO 250/5000 PSI FOR 10 MIN EACH TEST. TEST ANNULAR TO 250/3500 PSI FOR 5/10 MIN EACH TEST. TEST CASING TO 1500 PSI FOR 30 MIN.
01:00	0.50	01:30	14	NIPPLE UP B.O.P	INSTALL WEAR BUSHING.
01:30	3.25	04:45	6	TRIPS	MAKE UP 8 3/4 BHA & RIH TO 2092'.
04:45	0.75	05:30	3	REAMING	FILL STRING & WASH TO FLOAT COLLAR @ 2181'.
05:30	0.50	06:00	3	REAMING	DRILL ON FLOAT COLLAR.

**12-17-45 BTR 4/5/2013 06:00 - 4/6/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.25	06:15	3	REAMING	DRILL SHOE TRACK & WASH TO TD (2235').
06:15	0.25	06:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2235-2245'. ROP 40 FPH.
06:30	0.25	06:45	5	COND MUD & CIRC	CIRCULATE, SPOT 50 BBL 20% BULK LCM PILL ON BOTTOM.
06:45	2.25	09:00	22	OPEN	ATTEMPT FIT TO 10.5 PPG EMW W/O SUCCESS. PRESSURED UP 14 TIMES TO 220 PSI. PRESSURE BLED DOWN TO 100 PSI IN ~4 MIN. ATTEMPTED TO SPOT A #3 DRILLCHEM & STRING PLUGGED. UNABLE TO CLEAR.  #3 DRILLCHEM PILL CONTAINS: 20 PPB FIT, 20 PPB DRILL-SEAL M, 10 PPB DRILL-SEAL C, & 5 PPB DRILL-SEAL C. EQUIVALENT TO 30% LCM.
09:00	1.75	10:45	6	TRIPS	POH W/PLUGGED STRING TO 74'.
10:45	1.75	12:30	6	TRIPS	CLEAN LCM PLUG FROM SPERRY TOOLS. LAY DOWN PLUGGED MOTOR.
12:30	0.50	13:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.



# Bill Barrett Corporation

## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	1.25	14:15	8	REPAIR RIG	PULL WEAR BUSHING & INSTALL & LOCK DOWN TEST PLUG. OPEN UPPER PIPE RAM DOOR & REPLACE LEAKING HYDRAULIC FITTING. CLOSE DOOR & TEST HYDRAULICS.  CLOSE UPPER PIPE RAMS, OPEN WELLHEAD VALVE & TEST OPENED DOOR TO 250/5000 PSI FOR 5/10 MIN.
14:15	0.25	14:30	22	OPEN	CLOSE BLIND RAMS & PERFORM FIT TO 10.5 PPG EMW. APPLIED 220 PSI SURFACE PRESSURE OVER 8.6 PPG MUD.
14:30	2.00	16:30	6	TRIPS	PICK UP NEW MOTOR, SCRIBE TO MWD & RIH.
16:30	1.00	17:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2245-2306'. ROP 61 FPH.
17:30	0.75	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2306-2326'. ROP 26.7 FPH.
18:15	0.25	18:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2326-2361'. ROP 140 FPH.
18:30	0.25	18:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2361-2371'. ROP 40 FPH.
18:45	0.75	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2371-2455'. ROP 112 FPH.
19:30	0.25	19:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2455-2467'. ROP 48 FPH.
19:45	0.50	20:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2467-2549'. ROP 164 FPH.
20:15	0.50	20:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2549-2563'. ROP 28 FPH.
20:45	0.50	21:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2563-2643'. ROP 160 FPH.
21:15	0.25	21:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2643-2657'. ROP 56 FPH.
21:30	0.50	22:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2657-2738'. ROP 162 FPH.
22:00	0.25	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2738-2756'. ROP 72 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2756-2832'. ROP 152 FPH.
22:45	0.25	23:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2832-2846'. ROP 56 FPH.
23:00	0.25	23:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2846-2926'. ROP 320 FPH.
23:15	0.50	23:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 2926-2942'. ROP 32 FPH.
23:45	0.50	00:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 2942-3020'. ROP 156 FPH.
00:15	0.25	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3020-3028'. ROP 32 FPH.
00:30	0.50	01:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3028-3115'. ROP 174 FPH.
01:00	0.25	01:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3115-3127'. ROP 48 FPH.
01:15	0.25	01:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3127-3209'. ROP 328 FPH.
01:30	0.25	01:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3209-3217'. ROP 32 FPH.
01:45	0.50	02:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3217-3303'. ROP 172 FPH.
02:15	0.50	02:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3303-3303'. ROP 24 FPH.
02:45	0.50	03:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3315-3397'. ROP 164 FPH.
03:15	0.25	03:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3397-3411'. ROP 56 FPH.
03:30	0.50	04:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3411-3491'. ROP 160 FPH.
04:00	0.25	04:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3491-3499'. ROP 32 FPH.
04:15	0.25	04:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3499-3510'. ROP 44 FPH.  LOST ALL RETURNS. BACK OFF PUMPS.
04:30	0.50	05:00	5	COND MUD & CIRC	BACK OFF PUMPS, BYPASS SHAKERS, BUILD VOLUME, INCREASE LCM IN SYSTEM. STAGE UP PUMPS.
05:00	1.00	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3510-3617'. ROP 107 FPH.

## 12-17-45 BTR 4/6/2013 06:00 - 4/7/2013 06:00

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3617-3775'. ROP 158 FPH.  SHAKE OUT LCM AT 3740'.
07:00	0.25	07:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3775-3783'. ROP 32 FPH.  CONTINUE STEADY MIXING OF LCM. OBSERVING ~20 BPH SEEPAGE LOSSES.
07:15	1.50	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3783-3963'. ROP 120 FPH.
08:45	0.50	09:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 3963-3971'. ROP 16 FPH.
09:15	1.50	10:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 3971-4152'. ROP 120.7 FPH.
10:45	0.50	11:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4152-4162'. ROP 20 FPH.
11:15	0.75	12:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4162-4246'. ROP 112 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	0.25	12:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4246-4254'. ROP 32 FPH.
12:15	2.75	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4254-4529'. ROP 100 FPH.
15:00	0.50	15:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:30	0.75	16:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4529-4623'. ROP 125.3 FPH.
16:15	0.50	16:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4623-4635'. ROP 24 FPH.
16:45	0.75	17:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4635-4717'. ROP 109.3 FPH.
17:30	0.75	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4717-4732'. ROP 20 FPH.
18:15	0.75	19:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4732-4811'. ROP 105.3 FPH.
19:00	0.50	19:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4811-4821'. ROP 20 FPH.
19:30	0.75	20:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4821-4906'. ROP 113.3 FPH.
20:15	0.75	21:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4906-4916'. ROP 13.3 FPH.
21:00	0.75	21:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4916-5000'. ROP 112 FPH.
21:45	0.50	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5000-5012'. ROP 24 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5012-5094'. ROP 164 FPH.
22:45	0.50	23:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5094-5112'. ROP 36 FPH.
23:15	0.75	00:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5112-5188'. ROP 101.3 FPH.
00:00	0.75	00:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5188-5210'. ROP 29.3 FPH.
00:45	0.50	01:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5210-5283'. ROP 146 FPH.
01:15	1.25	02:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5283-5315'. ROP 25.6 FPH.
02:30	0.25	02:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5315-5330'. ROP 60 FPH.
02:45	1.00	03:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5330-5348'. ROP 18 FPH.
03:45	0.25	04:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5348-5377'. ROP 116 FPH.
04:00	0.75	04:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5377-5395'. ROP 24 FPH.
04:45	0.25	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5395-5424'. ROP 116 FPH.
05:00	1.00	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5424-5432'. ROP 8 FPH.

**12-17-45 BTR 4/7/2013 06:00 - 4/8/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5432-5565'. ROP 106.4 FPH.
07:15	0.75	08:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5565-5590'. ROP 33.3 FPH.
08:00	0.50	08:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5590-5660'. ROP 140 FPH.
08:30	1.25	09:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5660-5680'. ROP 16 FPH.
09:45	0.25	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5680-5707'. ROP 108 FPH.
					ANGLE BUILDING AT 3.75 DEG/100' IN ROTATION.
10:00	3.00	13:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5707-5754'. ROP 15.7 FPH.
13:00	0.50	13:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
13:30	0.75	14:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5754-5775'. ROP 28 FPH.
14:15	0.25	14:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5775-5801'. ROP 104 FPH.
14:30	0.75	15:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5801-5821'. ROP 26.7 FPH.
15:15	0.25	15:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5821-5848'. ROP 108 FPH.
15:30	0.75	16:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5848-5869'. ROP 28 FPH.
16:15	0.50	16:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5869-5943'. ROP 148 FPH.
16:45	1.00	17:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5943-5963'. ROP 20 FPH.
17:45	0.25	18:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5963-5990'. ROP 108 FPH.
18:00	1.00	19:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5990-6009'. ROP 19 FPH.
19:00	0.50	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6009-6037'. ROP 56 FPH.
19:30	0.50	20:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6037-6053'. ROP 32 FPH.
20:00	2.50	22:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6053-6319'. ROP 106.4 FPH.
22:30	0.25	22:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6319-6327'. ROP 32 FPH.
					BYPASS SHAKERS & INCREASE LCM CONTENT.
22:45	0.50	23:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6327-6366'. ROP 78 FPH.
23:15	0.50	23:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6366-6381'. ROP 30 FPH.
23:45	0.50	00:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6381-6414'. ROP 66 FPH.
00:15	2.75	03:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6414-6451'. ROP 13.5 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
03:00	0.25	03:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6451-6461'. ROP 40 FPH.
03:15	1.25	04:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6461-6486'. ROP 20 FPH.
04:30	0.25	04:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6486-6508'. ROP 88 FPH.
04:45	1.25	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6508-6528'. ROP 16 FPH.
REQUIRING MUCH SLIDING TO EVEN HALF-WAY CONTROL INCLINATION.					

**12-17-45 BTR 4/8/2013 06:00 - 4/9/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6528-6555'. ROP 27 FPH. SHAKE OUT LCM.
07:00	1.25	08:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6555-6575'. ROP 16 FPH.
08:15	0.50	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6575-6602'. ROP 54 FPH.
08:45	1.00	09:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6602-6622'. ROP 20 FPH.
09:45	0.25	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6622-6649'. ROP 108 FPH.
10:00	1.75	11:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6649-6669'. ROP 11.4 FPH.
11:45	0.25	12:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6669-6697'. ROP 112 FPH.
12:00	1.25	13:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6697-6717'. ROP 16 FPH.
13:15	0.25	13:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6717-6744'. ROP 108 FPH.
13:30	1.00	14:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6744-6760'. ROP 16 FPH.
14:30	0.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6760-6791'. ROP 62 FPH.
15:00	0.50	15:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:30	1.00	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6791-6816'. ROP 25 FPH.
16:30	0.50	17:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6816-6838'. ROP 44 FPH. CONTROL ROP IN ATTEMPT TO PREVENT HOLE FROM WALKING.
17:00	1.00	18:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6838-6858'. ROP 20 FPH.
18:00	0.25	18:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6858-6885'. ROP 120 FPH. CONTROL ROP TO 80 FPH.
18:15	1.25	19:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6885-6904'. ROP 15.2 FPH.
19:30	0.75	20:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6904-6932'. ROP 37.3 FPH. CONTROL ROP IN ATTEMPT TO REDUCE ANGLE BUILD.
20:15	1.25	21:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6932-6947'. ROP 12 FPH.
21:30	0.75	22:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6947-6980'. ROP 44 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6980-6993'. ROP 26 FPH.
22:45	0.75	23:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6993-7027'. ROP 40 FPH.
23:30	0.25	23:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7027-7035'. ROP 32 FPH.
23:45	0.75	00:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7035-7074'. ROP 52 FPH.
00:30	0.75	01:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7074-7086'. ROP 16 FPH.
01:15	0.50	01:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7086-7121'. ROP 70 FPH.
01:45	1.00	02:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7121-7136'. ROP 15 FPH.
02:45	0.75	03:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7136-7160'. ROP 32 FPH.
03:30	1.00	04:30	8	REPAIR RIG	THAW FROZEN AIR LINE OUTSIDE VFD HOUSE. DRAWWORKS BRAKE NOT WORKING.
04:30	0.50	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7160-7168'. ROP 16 FPH.
05:00	0.75	05:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7168-7188'. ROP 26.7 FPH.
05:45	0.25	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7188-7200'. ROP 48 FPH. CONTROL ROTATING ROP TO 50 FPH W/50 RPM IN ATTEMPT TO REDUCE SLIDING TIME.

**12-17-45 BTR 4/9/2013 06:00 - 4/10/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7200-7262'. ROP 41.3 FPH. CONTROLLING ROP TO 50 FPH IN ATTEMPT TO REDUCE SLIDING TIME.
07:30	1.50	09:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7262-7282'. ROP 13.3 FPH.
09:00	1.50	10:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7282-7356'. ROP 49.3 FPH. CONTROL ROP TO 60 FPH.
10:30	0.50	11:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7356-7376'. ROP 40 FPH.
11:00	3.75	14:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7376-7545'. ROP 45.1 FPH.
14:45	0.50	15:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:15	7.25	22:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7545-8015' (TD). ROP 64.8 FPH. NO LONGER CONTROLLING ROP. LOSING MUD AT ~7740'. BYPASSING SHAKERS & INCREASING LCM.
22:30	1.00	23:30	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE 1 1/2 BOTTOMS UP.
23:30	2.75	02:15	6	TRIPS	PUMP SLUG & POH TO SHOE. BLOW DOWN MUD LINES.
02:15	3.50	05:45	6	TRIPS	RIH TO 7921'.. FILL STRING AT 4500' & 7921'.
05:45	0.25	06:00	3	REAMING	PRECAUTIONARY WASH TO TD. SCREEN OUT LCM.

**12-17-45 BTR 4/10/2013 06:00 - 4/11/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE & INCREASE VIS TO ~50.
08:00	5.50	13:30	6	TRIPS	FLOW CHECK, PUMP SLUG & POH TO LOG. LAY DOWN SPERRY TOOLS. BIT COND: 1-1-BT-G-X-I-WT-TD.
13:30	2.00	15:30	11	WIRELINE LOGS	HELD PJSM, SPOT LOGGING TRUCK & RIG UP HOWCO LOGGERS.
15:30	3.00	18:30	11	WIRELINE LOGS	RIH W/QUAD COMBO LOGS. LOGGER'S TD 8010'.
18:30	1.25	19:45	11	WIRELINE LOGS	HELD PJSM & RIG DOWN LOGGERS.
19:45	0.50	20:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
20:15	4.25	00:30	6	TRIPS	MAKE UP BIT & RIH TO WIPE HOLE FOR CASING.
00:30	0.75	01:15	5	COND MUD & CIRC	CIRC OUT TRIP GAS. WELL FLOWING W/PUMPS OFF.
01:15	1.00	02:15	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRC 1 1/2 BOTTOMS UP.
02:15	3.75	06:00	6	TRIPS	POH LAYING DOWN STRING.

**12-17-45 BTR 4/11/2013 06:00 - 4/12/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	POH LAY DOWN STRING.
09:00	0.50	09:30	14	NIPPLE UP B.O.P	PULL WEAR BUSHING.
09:30	1.25	10:45	12	RUN CASING & CEMENT	HELD PJSM. RIG UP CRT & CASING TOOLS & INSTALL TRIP NIPPLE.
10:45	7.25	18:00	12	RUN CASING & CEMENT	MAKE UP/THREADLOCK 2 JT SHOE TRACK & CIRCULATE THRU. RUN 152 JTS 5 1/2, 17#, P-110, LTC, R3 CASING TO 6790'. FILL CASING EVERY 5 JTS. BREAK CIRCULATION AT SHOE & 5125'.
18:00	0.50	18:30	8	REPAIR RIG	REPLACE ENCODER ON CRT.
18:30	1.75	20:15	12	RUN CASING & CEMENT	CONTINUE RUNNING 5 1/2 CASING. LAND W/SHOE @ 8005' & FLOAT COLLAR @ 7912'. MINIMAL RETURNS FROM ~5500'. SLOW RUNNING SPEED. WASH DOWN LAST JOINT.
20:15	1.75	22:00	5	COND MUD & CIRC	CIRCULATE CASING WHILE RIGGING UP HALLIBURTON. FULL RETURNS.
22:00	4.25	02:15	12	RUN CASING & CEMENT	HELD PJSM. INSTALL CEMENT HEAD, FILL LINE W/WATER & TEST LINE TO 5000 PSI. HOWCO PUMPED 7 BBL WATER, 40 BBL SUPER FLUSH 101 @ 10 PPG, 10 BBL WATER. CEMENTED W/590 SX (244 BBL) TUNED LIGHT + 1.0 PPS GRANULITE + 0.125 PPS POLY-E-FLAKE + 0.85% HR-601 @ 11 PPG & 585 SX (149 BBL) BONDCM + 1.0 PPS GRANULITE + 0.125 PPS POLY-E-FLAKE @ 13.5 PPG. DROPPED TOP PLUG & DISPLACED W/183 BBL WATER + 0.3 GAL/1000 CLA-WEB + ALDACIDE. BUMPED PLUG W/600 PSI OVER FDP, TOTAL PRESSURE 2150 PSI. HELD 10 MIN. BLEED OFF 1 BBL & FLOATS HELD. RETURNS SLOWED & BECAME A TRICKLE AT 165 BBL DISPLACEMENT. NO CEMENT OBSERVED AT SURFACE. CIP @ 01:34 HRS.  RIG DOWN CEMENT HEAD/LINE.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
02:15	2.50	04:45	14	NIPPLE UP B.O.P	WASH WATER THRU BOP & FLOWLINE. REMOVE FLOWLINE, BREAK HP RISER AT CASING HEAD & LIFT BOP. SET CASING ON SLIPS W/30K OVER STRING WT (205K INDICATOR WT). ROUGH CUT CASING, LAY DOWN CUTOFF.
04:45	1.25	06:00	14	NIPPLE UP B.O.P	REMOVE ROTATING HEAD, C & K LINES.

**12-17-45 BTR 4/12/2013 06:00 - 4/12/2013 09:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	14	NIPPLE UP B.O.P	FINISH ND/STOW BOPE. RIG DOWN CRT & INSTALL NIGHT CAP. FINISH CLEANING MUD TANKS.  RELEASE RIG AT 09:00 HRS, 4/12/13.

**12-17-45 BTR 4/16/2013 06:00 - 4/17/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.
09:00	5.00	14:00	IWHD	Install Wellhead	Safety Meeting With Cameron, Check Surface Casing & 5.5" For Pressure, 0 Psi On Both Sides. N/D 11" Night Cap, Cleaned And Dressed Up 5.5" Csg Top, Set And N/U 11" x 7 1/16" 5k Tbg. Head With 2 1/16" x 5k Gate Valves. Tested Hanger Seals To 7100 Psi, Good Test. Secured Well Head With 7" 5K Night Cap.
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.

**12-17-45 BTR 4/17/2013 06:00 - 4/18/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.
08:00	1.50	09:30	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.
09:30	5.00	14:30	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 7,860', Drilling Report Shows FC At 7,913', 53' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 7,860', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 04-10-2013. Run Repeat Section From 7,860 - 7,600', Log Up Hole. Showed Good Bond From TD To 3,550, 3,550 - 3,100' Fair, 3,100 - 2,970 Ratty. TOC 2,970'. Found Short Joints At 6,848 - 6,869' And 5,970 - 5,992'. Ran With Pressure. Pooh, RD Equipment, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured

**12-17-45 BTR 4/25/2013 06:00 - 4/26/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	START SETTING FRAC LINE. START SETTING FB EQUIP.

**12-17-45 BTR 4/26/2013 06:00 - 4/27/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FILLING FRAC LINE. PLUMB IN FB EQUIP.

**12-17-45 BTR 4/27/2013 06:00 - 4/28/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FILLING FRAC LINE

**12-17-45 BTR 4/28/2013 06:00 - 4/29/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FILLING FRAC LINE

**12-17-45 BTR 4/29/2013 06:00 - 4/30/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	CHECK PRESSURE. ND NIGHT CAP. NU FRAC MANDREL, FRAC VALVES, FRAC HEAD. PRES TEST CSG, VALVES, AND FB EQUIP. FILLING FRAC LINE.

**12-17-45 BTR 4/30/2013 06:00 - 5/1/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FILLING FRAC LINE. SET HANDRAILS. SET BACKSIDE MANIFOLD.

**12-17-45 BTR 5/1/2013 06:00 - 5/2/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	FRAC	Frac. Job	Heat Frac Line. HES Load And Mix Acid. Prep For Frac.

**12-17-45 BTR 5/2/2013 06:00 - 5/3/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.25	09:15	LOCL	Lock Wellhead & Secure	WSI And Secured. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.
09:15	1.00	10:15	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013. Found And Correlated To Short Joint At 6,848 - 6,869'. Drop Down To Depth, Perforate Stage 1 CR-4A/CR-4 Zone, 7,537 - 7,822'. 48 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
10:15	3.75	14:00	SRIG	Rig Up/Down	HES Rigging Up
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**12-17-45 BTR 5/3/2013 06:00 - 5/4/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.



# Bill Barrett Corporation

## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.09	06:05	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16  Open Well, 42 Psi. ICP. BrokeDown At 10.0 Bpm And 2,640 Psi..  Pump 3900 Gals. 15% HCL And 96 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 70.6 Bpm And 4,508 Psi., Get ISIP, 2,241 Psi.. 0.73 Psi./Ft. F.G.. 34/48 Holes.  Con't With SlickWater Pad, 45,173 Gals..  Stage Into Hybor Pad, 70.3 Bpm At 3,936 Psi..  On Perfs, 70.3 Bpm At 4,104 Psi., 11,358 Gals.  Stage Into 2.0# 20/40 White Prop, 70.2 Bpm At 4,135 Psi..  On Perfs, 70.3 Bpm At 3,785 Psi., 8,453 Gals.  Stage Into 3.0# 20/40 White Prop, 70.4 Bpm At 3,732 Psi..  On Perfs, 70.4 Bpm At 3,318 Psi., 18,860 Gals.  Stage Into 3.5# 20/40 White Prop, 70.5 Bpm At 3,180 Psi..  On Perfs, 70.4 Bpm At 3,122 Psi., 9,462 Gals.  Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 3,156 Psi..  On Perfs, 70.5 Bpm At 3,075 Psi., 9,821 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 2,343 Psi.. 0.74 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 139,900#  Total Clean - 123,915 Gals.. 2,950 Bbls..  Produced Water - 63,974 Gals..  2% KCL - 57,954 Gals..  BWTR - 3,099 Bbls.  Max. Rate - 70.6 Bpm  Avg. Rate - 70.4 Bpm  Max. Psi. - 4,158 Psi.  Avg. Psi. - 3,377 Psi.</p>
06:05	0.42	06:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
06:30	1.08	07:35	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013.  Found And Correlated To Short Joint At 6,848 - 6,869'.  Drop Down To Depth Set CBP At 7,530'. 2,150 Psi..  Perforate Stage 2 CR-3 Zone, 7,327 - 7,510'. 42 Holes. 2,100 Psi..  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
07:35	0.08	07:40	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
07:40	1.33	09:00	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16  Open Well, 2,039 Psi. ICP. BrokeDown At 9.5 Bpm And 2,485 Psi..  Pump 3900 Gals. 15% HCL And 84 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 70.3 Bpm And 4,276 Psi., Get ISIP, 2,308 Psi.. 0.75 Psi./Ft. F.G.. 34/42 Holes.  Con't With SlickWater Pad, 48,398 Gals..  Stage Into Hybor Pad, 70.2 Bpm At 4,012 Psi..  On Perfs, 70.5 Bpm At 4,271 Psi., 20,062 Gals., Went Long Due To Loss Of CL-31 (Xlinker).  Stage Into 2.0# 20/40 White Prop, 41.0 Bpm At 2,988 Psi..  On Perfs, 70.3 Bpm At 3,743 Psi., 8,221 Gals.  Stage Into 3.0# 20/40 White Prop, 70.4 Bpm At 3,701 Psi..  On Perfs, 70.3 Bpm At 3,466 Psi., 23,070 Gals.  Stage Into 3.5# 20/40 White Prop, 62.7 Bpm At 3,086 Psi..  On Perfs, 70.2 Bpm At 3,220 Psi., 9,133 Gals.  Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 3,201 Psi..  On Perfs, 70.2 Bpm At 3,218 Psi., 9,719 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 2,373 Psi.. 0.76 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 150,300#  Total Clean - 138,521 Gals.. 3,298 Bbls..  Produced Water - 66,371 Gals..  2% KCL - 70,205 Gals..  BWTR - 3,452 Bbls.  Max. Rate - 70.4 Bpm  Avg. Rate - 69.2 Bpm  Max. Psi. - 4,316 Psi.  Avg. Psi. - 3,403 Psi.</p>
09:00	0.17	09:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.



# Bill Barrett Corporation

## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:10	1.00	10:10	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013. Found And Correlated To Short Joint At 6,848 - 6,869'. Drop Down To Depth Set CBP At 7,310'. 2,200 Psi., Perforate Stage 3 CR-3/CR-2 Zone, 7,041 - 7,290'. 45 Holes. 2,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
10:10	0.08	10:15	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
10:15	1.17	11:25	FRAC	Frac. Job	Frac Stage 3. Fluid System: Hybor G 16 Open Well, 2,015 Psi. ICP. BrokeDown At 10.1 Bpm And 2,647 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 70.6 Bpm And 4,332 Psi., Get ISIP, 1,943 Psi.. 0.71 Psi./Ft. F.G.. 34/45 Holes. Con't With SlickWater Pad, 49,570 Gals.. Stage Into Hybor Pad, 70.2 Bpm At 3,474 Psi.. On Perfs, 70.3 Bpm At 3,779 Psi., 12,062 Gals. Stage Into 2.0# 20/40 White Prop, 70.3 Bpm At 3,835 Psi.. On Perfs, 70.3 Bpm At 3,427 Psi., 7,922 Gals. Stage Into 3.0# 20/40 White Prop, 70.3 Bpm At 3,386 Psi.. On Perfs, 70.3 Bpm At 3,466 Psi., 23,887 Gals. Stage Into 3.5# 20/40 White Prop, 70.4 Bpm At 3,125 Psi.. On Perfs, 70.3 Bpm At 3,061 Psi., 8,937 Gals. Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 3,049 Psi.. On Perfs, 70.3 Bpm At 2,953 Psi., 9,335 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,216 Psi.. 0.75 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,300# Total Clean - 131,316 Gals.. 3,127 Bbls.. Produced Water - 67,081 Gals.. 2% KCL - 62,290 Gals.. BWTR - 3,287 Bbls. Max. Rate - 70.4 Bpm Avg. Rate - 70.3 Bpm Max. Psi. - 3,840 Psi. Avg. Psi. - 3,276 Psi.
11:25	0.17	11:35	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
11:35	1.00	12:35	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013. Found And Correlated To Short Joint At 6,848 - 6,869'. Drop Down To Depth Set CBP At 7,030'. 2,100 Psi., Perforate Stage 4 CR-2/Wasatch Zone, 6,745 - 7,011'. 45 Holes. 1,950 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
12:35	0.08	12:40	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:40	1.08	13:45	FRAC	Frac. Job	<p>Frac Stage 4. Fluid System: Hybor G 16  Open Well, 1,880 Psi. ICP. BrokeDown At 9.8 Bpm And 2,679 Psi..  Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 70.3 Bpm And 4,479 Psi., Get ISIP, 1,785 Psi.. 0.70 Psi./Ft. F.G.. 30/45 Holes.  Con't With SlickWater Pad, 48,424 Gals..  Stage Into Hybor Pad, 70.4 Bpm At 3,517 Psi..  On Perfs, 70.4 Bpm At 3,732 Psi., 12,161 Gals.  Stage Into 2.0# 20/40 White Prop, 70.4 Bpm At 3,741 Psi..  On Perfs, 70.4 Bpm At 3,376 Psi., 7,658 Gals.  Stage Into 3.0# 20/40 White Prop, 70.4 Bpm At 3,333 Psi..  On Perfs, 70.4 Bpm At 3,005 Psi., 24,781 Gals.  Stage Into 3.5# 20/40 White Prop, 70.4 Bpm At 2,924 Psi..  On Perfs, 70.3 Bpm At 2,902 Psi., 8,679 Gals.  Stage Into 4.0# 20/40 White Prop, 70.3 Bpm At 2,902 Psi..  On Perfs, 70.1 Bpm At 2,977 Psi., 9,513 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 1,717 Psi.. 0.69 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 White Prop - 150,900#  Total Clean - 130,112 Gals.. 3,098 Bbls..  Produced Water - 65,345 Gals..  2% KCL - 62,792 Gals..  BWTR - 3,249 Bbls.  Max. Rate - 70.6 Bpm  Avg. Rate - 70.4 Bpm  Max. Psi. - 3,745 Psi.  Avg. Psi. - 3,166 Psi.</p>
13:45	0.17	13:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
13:55	0.92	14:50	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013. Found And Correlated To Short Joint At 5,970 - 5,992'.  Drop Down To Depth Set CBP At 6,730'. 1,800 Psi..  Perforate Stage 5 CR-1A/CR-1/UteLand Butte Zone, 6,501 - 6,712'. 45 Holes. 1,700 Psi..  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
14:50	0.17	15:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
15:00	0.25	15:15	FRAC	Frac. Job	<p>Acidize Stage 5.  Open Well, 1,617 Psi. ICP. BrokeDown At 10.0 Bpm And 1,740 Psi..  Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls.  Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume.  Get ISDP, 1,798 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured.  Total Clean - 22,330 Gals.. 532 Bbls..  BWTR - 532 Bbls.  Max. Rate - 54.6 Bpm  Avg. Rate - 44.3 Bpm  Max. Psi. - 3,150 Psi.  Avg. Psi. - 2,432 Psi.</p>
15:15	0.17	15:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
15:25	1.00	16:25	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013. Found And Correlated To Short Joint At 5,970 - 5,992'.  Drop Down To Depth Set CBP At 6,492'. 1,650 Psi..  Perforate Stage 5 Castle Peak Zone, 6,331 - 6,480'. 42 Holes. 1,100 Psi..  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
16:25	13.58	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**12-17-45 BTR 5/4/2013 06:00 - 5/5/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
06:00	0.00	06:00	FRAC	Frac. Job	Acidize Stage 6. Open Well, 1,123 Psi. ICP. BrokeDown At 5.0 Bpm And 1,786 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,453 Psi.. 0.67 Psi./Ft. F.G.. WSI And Secured. Total Clean - 22,070 Gals.. 525 Bbls.. BWTR - 525 Bbls. Max. Rate - 51.8 Bpm Avg. Rate - 44.1 Bpm Max. Psi. - 2,593 Psi. Avg. Psi. - 2,079 Psi.
06:00	0.00	06:00	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
06:00	0.83	06:49	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013. Found And Correlated To Short Joint At 5,970 - 5,992'. Drop Down To Depth Set CBP At 6,320'. 1,250 Psi.. Perforate Stage 7 Castle PeakBlack Shale Zone, 6,149 - 6,306'. 39 Holes. 150 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
06:49	0.17	07:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
07:00	0.25	07:15	FRAC	Frac. Job	Acidize Stage 7. Open Well, 85 Psi. ICP. BrokeDown At 9.1 Bpm And 2,122 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,309 Psi.. 0.65 Psi./Ft. F.G.. WSI And Secured. Total Clean - 21,913 Gals.. 522 Bbls.. BWTR - 522 Bbls. Max. Rate - 50.6 Bpm Avg. Rate - 47.0 Bpm Max. Psi. - 2,827 Psi. Avg. Psi. - 2,085 Psi.
07:15	0.34	07:35	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.
07:35	0.75	08:20	PFRT	Perforating	RIH With 3 1/8" Sinker Bar And CBP Plug Assembly. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 04-10-2013 And SLB CBL/CCL Dated 04-17-2013. Found And Correlated To Short Joint At 5,970 - 5,992'. Drop Down To Depth Set CBP At 6,110'. 1,200 Psi.. Bleed Pressure Off Well. POOH. LayDown Tools, WSI And Secured.
08:20	3.67	12:00	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water, Move Tanks Off Location.

**12-17-45 BTR 5/5/2013 06:00 - 5/6/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HLD SAFETY MEETING.
07:00	1.50	08:30	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
08:30	2.50	11:00	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT CATWALK & PIPE RACKS. LOAD 262 JTS ON RACKS & TALLY TBG.
11:00	2.50	13:30	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & 2.31 XN- NIPPLE. RIH P/U 2-7/8 L-80 TBG TO KILL PLUG @ 6010'.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:30	4.50	18:00	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. TEST CIRC EQUIPMENT & BOPE TO 2500 PSI, HELD.  D/O KILL PLUG @ 6010'. FCP- 150 ON 28/64 CHOKE.  SWIVEL IN HOLE. D/O CBP @ 6320'. FCP- 200 ON 28/64 CHOKE.  SWIVEL IN HOLE. D/O CBP @ 6492'. FCP- 700 ON 32/64 CHOKE.  SWIVEL IN HOLE. D/O CBP @ 6730'. FCP- 1100 ON 24/64 CHOKE. CIRC WELL CLEAN. R/D SWIVEL. SDFN. TURN WELL OVER TO FLOW BACK.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**12-17-45 BTR 5/6/2013 06:00 - 5/7/2013 06:00**

API/UWI 43-013-51097	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,015.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	5.50	12:30	DOPG	Drill Out Plugs	FCP- 600 ON 20/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7005'. BREAK CIRC. C/O SAND & D/O CBP @ 7030'. FCP- 650 ON 28/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 7282'. C/O SAND & D/O CBP @ 7310'. FCP- 550 ON 28/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 7340'. C/O SAND & D/O CBP @ 7530'. FCP- 550 ON 32/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 7768'. C/O SAND, D/O FLOAT COLLAR @ 7912. C/O CMT TO 7979' PBTD. JT 251 ALL THE WAY IN. CIRC WELL CLEAN. PUMPED 350 BBLS TOTAL. R/D SWIVEL
12:30	1.50	14:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 6066' & LAND TBG. 190 JTS TOTAL IN HOLE.
14:00	1.50	15:30	BOPI	Install BOP's	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF. R/U TO SALES LINE. TURN OVER TO FLOW BACK.
15:30	3.00	18:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. MOL. SDFN
18:30	11.50	06:00	CTRL	Crew Travel	CREW TRAVEL.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626402																														
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE																														
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>																														
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 12-17-45 BTR																														
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1909 FSL 0844 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 17 Township: 04.0S Range: 05.0W Meridian: U		<b>9. API NUMBER:</b> 43013510970000																														
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT																														
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH																														
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>																																
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/20/2017  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input checked="" type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input checked="" type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Well was shut in on 5/21/15 due to low production & low commodity prices. On 5/20/16 the well will be shut in for 1 year. Current economics do not justify returning the well to production. For this reason BBC is requesting an additional 1 year shut in, before a MIT is required, until 5/20/17. Well currently has 0 psi tubing, 1175 psi casing, 20 psi Braden Head. With minimal to zero Braden Head pressure & 1175 psi casing pressure, it is evident that the 5-1/2" production csg has full integrity & all formations are protected. Fluid level was found at 6,400 ft. from surface with TOC at 2,770 ft. Well is shut in at the wellhead & all surface equipment has been drained/winterized. Well is still on an active lease operator route & is checked frequently for any surface & potential downhole issues. Well would be RTP if economics are justified at higher commodity price before 5/20/17.																																
<b>NAME (PLEASE PRINT)</b> Brady Riley		<b>PHONE NUMBER</b> 303 312-8115																														
<b>SIGNATURE</b> N/A		<b>TITLE</b> Permit Analyst																														
<b>DATE</b> 4/7/2016		<b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> May 04, 2016 <b>By:</b> <i>[Signature]</i>																														

Effective Date: 11/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

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14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD



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LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD

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LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

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LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P

From: Bill Barrett Corporation

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1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P

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4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone: (801) 683-4245  
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
RIG II, LLC N4055

3. ADDRESS OF OPERATOR:  
1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087 PHONE NUMBER: (801) 683-4245

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 11/1/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
801-683-4245  
(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165  
Duane Zavala NAME (PLEASE PRINT)  
Duane Zavala SIGNATURE  
Senior Vice President -  
EH&S, Government and Regulatory Affairs

RIG II, LLC  
Jesse McSwain NAME (PLEASE PRINT)  
Jesse McSwain SIGNATURE  
Manager

NAME (PLEASE PRINT) Jesse McSwain TITLE Manager  
SIGNATURE Jesse McSwain DATE 10/20/16

(This space for State use only)

APPROVED

NOV 07 2016

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

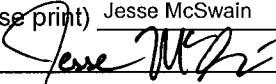
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	(See attached list)
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Bill Barrett Corporation
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Bill Barrett Corporation

Check one	Desired Action:
	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-LUDGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager  
Signature  Date 10/20/16  
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

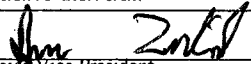
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

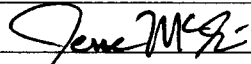
Well Name and Number <b>6-32-36 BTR SWD</b>	API Number <b>4301350921</b>
Location of Well  Footage : <b>1628 FNL 1553 FWL</b> County : <b>DUCHENSE</b>  QQ, Section, Township, Range: <b>SENW    32    3S    6W</b> State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

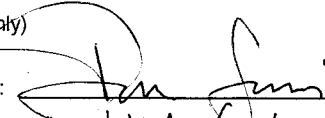
**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadii</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&amp;S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

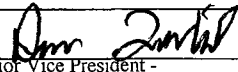
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

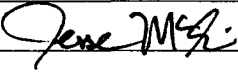
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION  
Address: 1099 18th Street Ste 2300  
city DENVER state CO zip 80202  
Phone: (303) 293-9100  
Comments:


Name: Duane Zavadii  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC  
Address: 1582 West 2600 South  
city Wood Cross state UT zip 84087  
Phone: (801) 683-4245  
Comments:

Name: Jesse McSwain  
Signature:   
Title: Manager  
Date: 10/20/16

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

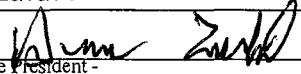
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

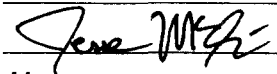
Well Name and Number <b>SWD 9-36 BTR</b>	API Number <b>4301350646</b>
Location of Well  Footage : <b>0539 FSL 0704 FEL</b>  County : <b>DUCHESNE</b>  QQ, Section, Township, Range: <b>SESE 9 3S 6W</b>  State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&amp;S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

*This well was approved by USEPA.  
EPA approval will be required.*